



TRANSMITTAL MEMORANDUM

TO: DISTRIBUTION
FROM: David A. Crosby, P.E., Environmental Engineer, Bureau of Construction Services,
Division of Environmental Remediation *DAc*
DATE: December 3, 1998
RE: Former GE Hornell, Site # 8-51-009, Steuben County
Final Remediation Report

Attached for your, ☐ Review ☒ Information ☐ Approval
please find the following documents related to the above referenced site:

- ☐ Final Remediation Report for the Former G.E. Hornell Site, Steuben County, New York, dated October 1998.

If you have any questions or wish to discuss the project, please feel free to contact me at (518) 457-9285.

DISTRIBUTION:

Mark VanValkenburg, NYSDOH-Albany
Vivek Nattanmai, DER-BWRA ✓

Attachment

New York State Department of Environmental Conservation

Division of Environmental Remediation, Region 8

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John P. Cahill
Commissioner

MEMORANDUM

To: David Crosby, P.E. - DER, Albany
From: David Pratt, P.E. - DER, Region 8
Subject: G.E. Hornell Final Remediation Report
Hornell (C), Steuben (C) #851009
Date: November 9, 1998

NOV 13 1998

Attached please find three copies of the Remediation Report for the G.E. Hornell site remediation. I have retained one copy for our records. Please distribute as you see fit (i.e. - NYSDOH, etc.). Let me know if you need more copies.

How do you wish to arrange the files? I have all the original submittals, maps, PCOs, etc. In total they will probably fill one file box. All the inspection reports and photos will be on a CD-ROM (once our CD-ROM reader/writer is functioning again). Preferably, I would like to send everything pertaining to the actual remediation to you, keeping only the report and a copy of the CD-ROM. Please let me know.

Call me with any questions.

Attachment

cc: M.J. Peachey
G. Harris
R. Long

New York State Department of
Environmental Conservation



REMEDIATION REPORT for the
FORMER G.E. HORNELL SITE
STEUBEN COUNTY, NEW YORK

NYSDEC SITE NUMBER 8-51-009

October 1998

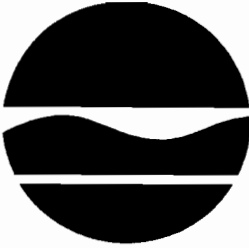


Prepared by:
Division of Environmental Remediation

George E. Pataki
Governor

John P. Cahill
Commissioner

New York State Department of
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EXECUTIVE SUMMARY

The New York State Department of Environmental Conservation (NYSDEC) Central Office provided overall project management and the NYSDEC Region 8 Office provided construction oversight for the remediation of the G.E. Hornell site #8-51-009. The remediation was funded by the New York State 1986 Environmental Quality Bond Act. Remediation commenced on August 18, 1997 and was deemed substantially complete on December 3, 1997.

The three areas of concern during this remediation were the residential area, the tank area and the grease pit area (see Figure ES-1). The remediation activities completed at this site during this project consisted of:

- removal of 229.55 cubic yards of non-hazardous lead-contaminated soil and 133.03 cubic yards of hazardous lead-contaminated soil from the residential area;
- removal of 1,451.21 cubic yards of non-hazardous lead-contaminated soil from the tank area and placement of a 6 inch permeable cap;
- removal of 684.07 cubic yards of non-hazardous lead-contaminated soil and 1,512.35 cubic yards of hazardous lead-contaminated soil from the grease pit area;
- backfilling;
- placement of a vegetative layer over residential and tank areas;
- re-paving of grease pit area; and,
- extensive citizen participation with affected residents.

Construction services were provided by Phillip Environmental Services Corporation from Buffalo, New York. Phillip was selected, through competitive bidding, to perform the work. Phillip submitted the lowest bid at \$405,781.50.

Table ES-1 shows estimated and actual quantities for each Bid Item. Due to an increase in quantity of soil needed to be excavated, the cost of the project rose \$150,620.19 to \$556,401.69 (see Change Order #1 - Appendix A). The Final Change Order (Appendix B) closing out the Contract was for \$25,491.72, bringing the final Contract price total to \$581,893.41.

The remediation at the G.E. Hornell site was successfully performed as called for in the Contract Documents as amended by PCOs#1 - 7, Change Order 1 and the Final Change Order.

SECTION 1 SITE BACKGROUND

1.1 Location

The G.E. Hornell site is a Class 2 site listed in the Registry of Inactive Hazardous Waste Disposal Sites in New York (#8-51-009). The Class 2 designation means that the site poses a significant threat to human health and/or the environment. The site is located in the City of Hornell, Steuben County, New York (see Figure 1-1). The 32-acre facility is currently owned by the City of Hornell Industrial Development Agency (IDA) and is leased to G.E.C. Alsthom, which utilizes the facility for refurbishing and assembling railroad cars. Areas of concern to the New York State Department of Environmental Conservation (NYSDEC) Inactive Hazardous Waste Remediation Program are located in the northern part of the facility and are the former grease pit area, the former tank area and the residential area (adjacent to the tank area and north of the IDA property - see Figure ES-1). Other areas of the facility have mainly petroleum-related contamination and are currently being addressed by the NYSDEC Bureau of Spill Prevention and Response.

The Canisteo River forms the primary boundary on the eastern and southeastern sides of the facility. The west and southwest sides of the facility are bordered by railroad tracks. Development near the site is primarily residential.

1.2 History

The facility has been utilized for the maintenance, repair and refueling of railroad equipment under various owners and operators since the early 1900s. Currently, most of the facility is owned by the City of Hornell Industrial Development Agency, with the exception of a refueling area which is owned by Conrail. The current tenant, G.E.C. Alsthom, continues to utilize the facility for railroad equipment maintenance.

The three areas of concern under this remediation are the grease pit area, the tank area and the residential area.

The grease pit area consisted of a pit beneath the north parking lot at the facility. The pit was formerly utilized for the disposal of grease from facility operations. Much of the grease disposed contained significantly elevated levels of lead.

The tank area contained two large petroleum tanks which were removed during the 1980s. There were also berms around these tanks for use as secondary containment in the event of a spill. The source of the lead contamination in this area is suspected to be from leaded-fuel spills and disposal of lead-containing paint chips from the facility's former paint stripping operations. Since the residential area is directly adjacent to the tank area, the lead contamination found in the residential area was likely from reworking of soil from the tank area.

1.3 Remedial Investigation

The remedial investigation (RI) for the G.E. Hornell site took place in two phases. The first phase was conducted in 1992 and is outlined in the Phase I RI Report dated November 1992. The second phase was conducted in 1993 and is outlined in the Phase II RI Report dated February 1994. Supplemental site investigations were performed in-house by NYSDEC staff in June and August 1996, as outlined in the Supplementary Document Limited Site Data Former G.E. Hornell Site dated February 1997.

The phase I and II RI, along with the additional NYSDEC sampling in 1996, identified hazardous waste at the grease pit area, the tank area and the residential area. The grease pit area had surface soil with levels of lead up to 11,700 ppm and subsurface soil samples containing up to 91,880 ppm. The tank area had surface soil levels for lead of up to 1,027 ppm. The berms in the tank area had levels of lead up to 25,000 ppm. The soil in the residential area had detections of lead at up to 2,420 ppm at the surface and 25,100 ppm for subsurface.

Groundwater was not found to be contaminated with hazardous waste-related constituents; however, petroleum related contamination is present and is being addressed separately by the NYSDEC Bureau of Spill Prevention and Response.

Canisteo River surface water and sediment were also sampled, but were not found to be adversely impacted by hazardous waste at the site. Investigations at other areas of the site did not indicate the presence of hazardous waste.

1.4 Record of Decision and Remedial Design

The remedial design for the G.E. Hornell site remediation was conducted in-house by NYSDEC staff. The Contract Document itself constitutes the design document.

Contained in the Record of Decision (ROD) and addressed by this Contract are:

- Removal of lead contaminated soil above 500 ppm from the grease pit area and backfill with clean soil;
 - Removal of lead contaminated soil above 250 ppm from the residential area and backfill with clean soil; and,
 - Cover contaminated soil in the tank area with a 12 inch, permeable cover.
- The tank area remedy was modified during design to include removal of the berms and placement of a 6 inch permeable cover.

Contained in the ROD, but not addressed by this Contract are:

- Advise current owners of the presence of polycyclic aromatic hydrocarbons (PAHs) at the site. These PAHs are not related to hazardous waste at the site.
- Remove and dispose of sediment from storm drains located at the site. (This activity was performed before the issuance of this Contract.)
- Sample the Canisteo River surface water and sediment every year for five years to monitor whether the site is contributing contamination to the river after implementation of the remedial program.
- Implement a long-term maintenance program for the cover soils placed at the site.

SECTION 2 SUMMARY OF REMEDIAL WORK

2.1 General Overview

A pre-construction meeting with the NYSDEC and Phillip Environmental Services Corporation was held at the NYSDEC Region 8 Office in Avon, NY on August 13, 1997. The Notice to Proceed was issued to Phillip on August 18, 1997. Phillip spent four to five weeks mobilizing trailers and equipment to the site; establishing electric and telephone service; having an initial site survey performed; and clearing and grubbing the trailer and tank areas.

The trailers were placed within the existing fenced areas located on Morrison-Knudson Drive. The two fenced areas were from previous investigations at the site and were used to store approximately 80 drums of investigation derived wastes.

As part of this remediation, the drums present in the fenced area were removed and disposed of properly. Liquid contents from drums were pumped into a tank and disposed of off site at a permitted facility. Solid contents from drums were later disposed of with hazardous waste from the grease pit area at Chemical Waste Management's Model City Landfill in Niagara County, New York. The drums were also later crushed and disposed of with the grease pit area hazardous wastes.

Background air monitoring was conducted from September 3 - 5, 1997. Traffic control to reroute traffic around the construction area was established on September 15, 1997 and site security, provided by guards from the GEC Alsthom facility, was established on September 19, 1997. Intrusive work began on September 16, 1997 when test pits were excavated in the grease pit area.

2.1.1 Tank Area

The tank area (Figure 2-1) is approximately one acre and held petroleum storage tanks which have since been removed. There were berms around the tanks to serve as secondary spill containment. These berms were found to be contaminated with lead and were removed as part of this remediation. The remaining soil below the berms was covered with a 6 inch permeable cap and topsoil, and seeded.

The berm removal at the Tank area occurred September 22, 23, 29 and 30, 1997. Portions of the berms were originally planned to be used for backfill in the grease pit area; however, compaction testing of the soils encountered indicated it would be unsuitable for use as backfill. 1,451.21 cubic yards of non-hazardous lead-contaminated soil was removed from the tank area and properly disposed of off-site at High Acres Landfill in Monroe County, New York. The unanticipated disposal costs for the extra soil from the tank area was paid per the contract bid amount for non-hazardous soil.

2.1.2 Grease Pit Area

The first of three separate phases of excavation of the grease pit area (Figure 2-2 A & B) began September 25, 1997. During the first phase, non-hazardous soils (0-5 feet below grade) were removed September 25, 26 and 29, and October 1, 1997 and hazardous soils (5-11 feet below grade) were removed October 7-9, 1997. Sampling during the design of the remedy established that 0-5 feet below grade could be disposed of as non-hazardous waste.

When the soil was removed as called for in the contract, grease was still visible at the west end of the excavation. Attempts were made to remove visible grease at that time; however, post-excavation sampling (Table 2-1) indicated the presence of lead above the 500 ppm on-site cleanup level. The grease pit was backfilled with cobbles (near the water table) and clean soil pending further evaluation.

On October 17, 1997, three test pits were excavated in the grease pit area to further define additional soils which would need to be excavated. The second phase of grease pit area excavation occurred October 27 - 29, 1997. The grease pit excavation was backfilled on October 30, 1997; however, post-excavation samples again indicated lead levels in excess of the 500 ppm on-site cleanup level.

A soil boring program in the grease pit area was performed November 10 - 14, 1997 to more completely define the limits of the final grease pit excavation. The third phase of grease pit excavation occurred from November 19 - 21, 1997. This third phase extended under adjacent Morrison-Knudson Road. Confirmatory samples from the third phase indicated the 500 ppm cleanup level had been achieved. Backfilling of the grease pit area and cold patch asphalt of the road area impacted by the expanded grease pit excavations occurred November 21, 24, and 25, 1997.

Overall, 684.07 cubic yards of non-hazardous and 1,512.35 cubic yards of hazardous lead-contaminated soil were removed from the grease pit area.

The grease pit area was paved on May 26 - 28, 1998. Also paved at this time were areas of Morrison-Knudson Road which were impacted by the expanded excavations.

2.1.3 Residential Area

Prior to activities at the residential area (Figure 2-3), the homes were photographed and videotaped inside and out by NYSDEC to establish a reference for possible problems due to the construction activities.

Excavations at the residential area occurred October 1 - 3, and 6, 1997. Soil to a depth of 18 inches was removed from the yards of five houses, except for two small areas where soil was removed to a depth of 24 inches and 60 inches. Excavations were performed using an excavator

except for areas within three feet of the houses, which were dug out by hand. In addition, plastic sheeting was attached to the backs and sides of the houses exposed to the excavation activities.

Overall, 229.55 cubic yards of non-hazardous and 133.03 cubic yards of hazardous lead contaminated soil were removed from the residential area.

A Proposed Change Order (PCO) was issued to allow for the placement of sod in the residential yards instead of the seeding and mulching called for in the contract. Restoration activities at the residential area, including placement of sod, fencing and trees, occurred October 20 - 22 and November 3 - 7, 1997.

2.1.3.1 Citizen Participation and the Residential Relocation Plan

Prior to the fieldwork, a fact sheet was sent to the residents in the area surrounding the site. At this time, direct contact was also made by the NYSDEC Region 8 Citizen Participation Specialist (CPS) with the residents impacted by excavation activities. A follow up fact sheet was mailed after substantial completion of the fieldwork.

A Residential Relocation Plan (Appendix C) was prepared for this site; however, none of the residents opted for relocation. Residents were kept apprized of events by the CPS and the NYSDEC Region 8 Construction Inspector.

The CPS was in frequent contact with the residents, sometimes several times a day during the intrusive activities at their homes. The CPS followed up all questions or comments raised by the citizens promptly, both verbally and in writing. No unresolvable problems were encountered.

2.1.4 Health and Safety / Air Monitoring

Chopra-Lee, Inc. was subcontracted to provide health and safety / air monitoring for the site activities. Environmental and personal air sampling was provided for polychlorinated biphenyls (PCBs), heavy metals, volatiles and total dust. All laboratory air samples were analyzed by Chopra-Lee, Inc. Chopra-Lee, Inc. provided a report (in the site files) entitled Site Monitoring Report dated December 10, 1997.

No significant air quality problems were encountered during the site remediation.

2.1.5 NYSDEC Oversight

Construction oversight was provided by NYSDEC Region 8 staff. Daily Inspection Reports and over 350 digital photographs are in the NYSDEC files on CD-ROM.

2.2 Bid Items

A detailed description of bid items may be found in the February 1997 Remediation of the Former GE Hornell Site Contract No. 1. The following are brief descriptions of the bid items:

2.2.1 Mobilization (Bid Item 1)

The Contractor was responsible for providing all materials, equipment, incidentals, and labor necessary for mobilization and demobilization for remediation of the GE Hornell site and additional off-site areas as specified in the Contract. This item was paid on a lump sum basis.

2.2.2 Site Services (Bid Item 2)

This bid item included costs of operating and maintaining the work sites and providing security. This item was paid on a daily basis.

2.2.3 Health and Safety (Bid Item 3)

This bid item called for the Contractor to provide and implement a Health and Safety Plan. This item was paid on a daily basis.

2.2.4 Soil Handling/Disposal

2.2.4.1 Bid Item 4A - Hazardous Soils

This bid item called for the Contractor to provide all materials, equipment, incidentals and labor necessary to completely and properly conduct excavation, transportation and off-site disposal of hazardous waste. This item was paid on a surveyed cubic yards removed basis.

2.2.4.2 Bid Item 4B - Non-Hazardous Soils

This bid item called for the Contractor to provide all materials, equipment, incidentals and labor necessary to completely and properly conduct excavation, transportation and off-site disposal of contaminated non-hazardous waste. This item was paid on a surveyed cubic yards removed basis.

2.2.4.2 Bid Item 4C - Soil Backfill Tank Area to Grease Pit

This bid item called for the Contractor to provide all materials, equipment, incidentals and labor necessary to completely and properly conduct excavation, transportation and backfilling of soils from the tank area into the grease pit. This item was to be paid on a surveyed cubic yards removed basis; however, subsequent soil testing indicated the soil would not achieve

adequate compaction and, therefore, was not suitable for use as backfill. This work was not performed.

2.2.5 Paving (Bid Item 5)

This bid item called for the Contractor to provide all materials, equipment, incidentals and labor necessary to completely and properly pave the grease pit area and repair Morrison-Knudsen Drive and the parking lot, if necessary. This work was paid on a square yard paved basis.

2.2.6 Verification Sampling & Analysis (Bid Item 6)

This bid item called for the Contractor to provide all materials, equipment, incidentals and labor necessary to completely and properly conduct verification soil sampling and analysis. This work was paid on a per sample basis.

Results of the verification sampling are included in Table 2-1. As described in Section 2.1.2, verification samples taken in the grease pit area indicated that the excavations did not reach cleanup levels. Three phases of excavations were necessary in the grease pit area to meet the 500 ppm cleanup level for lead in soil.

2.2.7 Backfilling (Bid Item 7)

This bid item called for the Contractor to provide all materials, sampling and analysis, grading and compacting equipment, incidentals and labor necessary to completely and properly conduct backfilling of excavated areas. This item was paid on a surveyed cubic yards placed basis.

2.2.8 Grading/Backfill Tank Area (Bid Item 8)

This bid item called for the Contractor to provide all materials, equipment, incidentals and labor necessary to completely and properly install the cover system in the tank area. This work was paid on a square yard basis.

2.2.9 Seeding Residential/Tank Area (Bid Item 9)

This bid item called for the Contractor to provide all materials, equipment, incidentals and labor necessary to completely and properly conduct the placement of six inches of topsoil, final grading, seeding, mulching, and establishment and maintenance of vegetation, until final acceptance, on the storage tank area and residential yards. This work was paid on a per acre basis. Additionally, a proposed change order (PCO#1 - see Section 2.4.1) was issued calling for the residential yards to receive sod instead of seeding and mulching. The sod work was paid on a time and materials basis.

2.3 Transportation / Disposal

Hazardous wastes were transported off-site by permitted haulers to Chemical Waste Management's Model City Landfill in Niagara County, New York. Non-hazardous wastes were transported by permitted haulers to High Acres Landfill in Monroe County, New York.

2.4 Proposed Change Orders (PCOs) and Submittals

The following Sections outline the PCOs issued during the site activities. The PCOs are attached as Appendix F. The Submittal Log is attached as Appendix G. All submittals are in the site files.

2.4.1 PCO#1 - Sod in Residential Area

This PCO was issued to change the specifications for seeding and mulching in the residential backyards to the placement of sod.

2.4.2 PCO#2 - Paving in Grease Pit Area

This PCO was issued to change the specifications for paving in the grease pit area to match the existing pavement conditions in the parking lot.

2.4.3 PCO#3a - Expanded Grease Pit Excavation

The Contract specified excavation limits were not adequate to remove all of the contaminated soil. This PCO allowed for an expansion of the area to be excavated.

2.4.4 PCO#4 - Test Pits at Grease Pit Area

This PCO called for the excavation of test pits in the grease pit area in order to help define the additional contaminated soil which needed to be excavated.

2.4.5 PCO#5 - Soil Borings at Grease Pit

This PCO called for drilling soil borings in the grease pit area and obtaining samples in order to help define the additional contaminated soil which needed to be excavated.

2.4.6 PCO#6 - Expanded Grease Pit Excavation

The expanded excavation performed under PCO#3a was not adequate to remove all of the contaminated soil. This PCO allowed for further expansion of the area to be excavated.

2.4.7 PCO#7 - Cold Patch Asphalt for Road

This PCO called for the placement of cold patch asphalt on the areas of the road which were impacted by the expanded excavation from PCO#6. The cold patch asphalt was a temporary patch and was agreed to by the City of Hornell.

2.5 Change Order #1 (Appendix A)

Change Order #1 was issued for PCO#1 - PCO#7 on March 16, 1998. This Change Order incorporated all changes in PCOs 1-7, as outlined in Section 2.4. The total Change Order amount was a net addition of \$159,620.19 to the original Contract price of \$405,781.50, bringing the new total Contract price to \$556,401.69.

2.6 Final Change Order (Appendix B)

The Final Change Order was issued for PCO#1 - PCO#7 on August 10, 1998. This Change Order included final adjustments on site paving, site services and health and safety costs. The total change order amount was for a net addition of \$25,491.72, bringing the final Contract amount to \$581,893.41.

SECTION 3
CONCLUSIONS and CERTIFICATION

The remediation at the G.E. Hornell site was conducted in substantial compliance with the Contract Documents and as amended by PCOs#1 - 7, Change Order 1 and the Final Change Order. No additional work is required to close out the requirements of the Contract Documents.

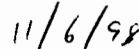
As outlined in Section 1.4, the following were included in the Record of Decision (ROD), but not addressed during this remediation:

- Advise current owners of the presence of polycyclic aromatic hydrocarbons (PAHs) at the site. These PAHs are not related to hazardous waste at the site.
- Remove and dispose of sediment from storm drains located at the site. (This activity was performed before the issuance of this Contract.)
- Sample the Canisteo River surface water and sediment every year for five years to monitor whether the site is contributing contamination to the river after implementation of the remedial program; and,
- Implement a long-term maintenance program for the cover soils placed at the site.

Except for the above items (which were not called for in the Contract) and except for the modifications made during design to the tank area remediation, the remediation was conducted, to the extent practicable, in accordance with the ROD.



David G. Pratt, P.E.
Environmental Engineer 2
NYSDEC Region 8



Date

Tables

Table ES-1

Estimated & Actual Bid Item Amounts

Site Number: 815009
Site Name: G.E.HORNELL

BID ITEM #	ITEM DESCRIPTION	UNITS	ESTIMATED QUANTITY	ACTUAL QUANTITY	UNDER / OVER
1	MOBILIZATION / DEMOBILIZATION	LUMP SUM	1	1	-
2	SITE SERVICES	DAILY	60	92	+ 32
3	HEALTH AND SAFETY	DAILY	40	43	+ 3
4A	EXCAVATE, TRANSPORT, DISPOSAL - HAZ. SOILS	CUBIC YARDS	995	1645.38	+ 650.38
4B	EXCAVATE, TRANSPORT, DISPOS. - NON HAZ.SOIL	CUBIC YARDS	2725	2643.12	- 81.88
4C	EXCAVATE, TRANSPORT, BACKFILL ON SITE SOIL	CUBIC YARDS	1050	0	- 1050
5	PAVING OF THE GREASE PIT	SQR. YARDS	1000	-	-
6	VERIFICATION SAMPLE / ANALYSIS	EACH	35	25	- 10
7	BACKFILL RESIDENTIAL / GREASE PIT AREAS	CUBIC YARDS	1100	2623.54	+ 1523.54
8	PLACE / GRADE COMMON FILL	SQR. YARDS	4840	4662	- 178
9	PLACE VEGETATIVE COVER	ACRES	1.75	1.27	- .48

NOTE : ITEM # 2 - 8 / 25 / 97 - 11 / 26 / 97 = 92 CALENDAR DAYS
ITEM # 3 - 9 / 2 / 97 - 11 / 26 / 97 = 43 WORK DAYS (36 DAYS @ 50%)
ITEM # 4C WAS DELETED DUE TO THE FAILURE OF SOIL TESTS.
ITEM # 5 - SPECIFICATIONS WERE CHANGED IN PCO #2.

Table 2-1

VERIFICATION SAMPLE RESULTS

Site Number: 815009
Site Name: G.E.HORNELL

SAMPLE #	LOCATION	ANALYTE	CONCENTRATION (MG / KG)	DATE SAMPLED
BPE1	TANK BERM - POST EXCAVATION	LEAD	314	10 / 6 / 97
BPE2	TANK BERM - POST EXCAVATION	LEAD	328	10 / 6 / 97
BPE3	TANK BERM - POST EXCAVATION	LEAD	193	10 / 6 / 97
BPE4	TANK BERM - POST EXCAVATION	LEAD	643	10 / 6 / 97
BPE5	TANK BERM - POST EXCAVATION	LEAD	99.7	10 / 6 / 97
GP01	GREASE PIT - WEST WALL	LEAD	932	10 / 8 / 97
GP02	GREASE PIT - WEST BOTTOM	LEAD	74.1	10 / 8 / 97
GP03	GREASE PIT - SOUTH WALL	LEAD	97.9	10 / 8 / 97
GP04	GREASE PIT - SOUTH BOTTOM	LEAD	142	10 / 8 / 97
GP05	GREASE PIT - EAST WALL	LEAD	3460	10 / 8 / 97
GP06	GREASE PIT - EAST BOTTOM	LEAD	13800	10 / 8 / 97
GP07	GREASE PIT - ADD.AREA - WALL	LEAD	57.8	10 / 8 / 97
GP08	GREASE PIT - ADD.AREA - BOTTOM	LEAD	20200	10 / 8 / 97

TABLE 2-1 (cont.)

GP09	GREASE PIT - NORTH WALL	LEAD	< 46.5	10 / 9 / 97
GP10	GREASE PIT - NORTH BOTTOM	LEAD	9040	10 / 9 / 97
PCO # 4 TPGP02	NORTH TEST PIT - EAST OF GREASE PIT	LEAD	1120	10 / 17 / 97
PCO # 4 TPGP03	SOUTH TEST PIT - EAST OF GREASE PIT	LEAD	393	10 / 17 / 97
PCO # 3 EPG01	ADD. EXCAVATION - NORTH WALL (W)	LEAD	23700	10 / 29 / 97
PCO # 3 EPG02	ADD. EXCAVATION - NORTH WALL (E)	LEAD	53300	10 / 29 / 97
PCO # 3 EPG03	ADD. EXCAVATION - EAST WALL	LEAD	10900	10 / 29 / 97
PCO # 3 EPG04	ADD. EXCAVATION - SOUTH WALL	LEAD	4870	10 / 29 / 97
PCO # 3 EPG05	ADD. EXCAVATION - BOTTOM	LEAD	< 49.2	10 / 29 / 97
PCO # 6 EPG06	ADD. EXCAVATION - NORTH WALL	LEAD	< 49.2	11 / 20 / 97
PCO # 6 EPG07	ADD. EXCAVATION - EAST WALL	LEAD	391	11 / 20 / 97
PCO # 6 EPG08	ADD. EXCAVATION - BOTTOM (E)	LEAD	246	11 / 20 / 97
PCO # 6 EPG09	ADD. EXCAVATION - SOUTH WALL	LEAD	71	11 / 20 / 97
PCO # 6 EPG10	ADD. EXCAVATION - BOTTOM (W)	LEAD	-	11 / 21 / 97

Figures

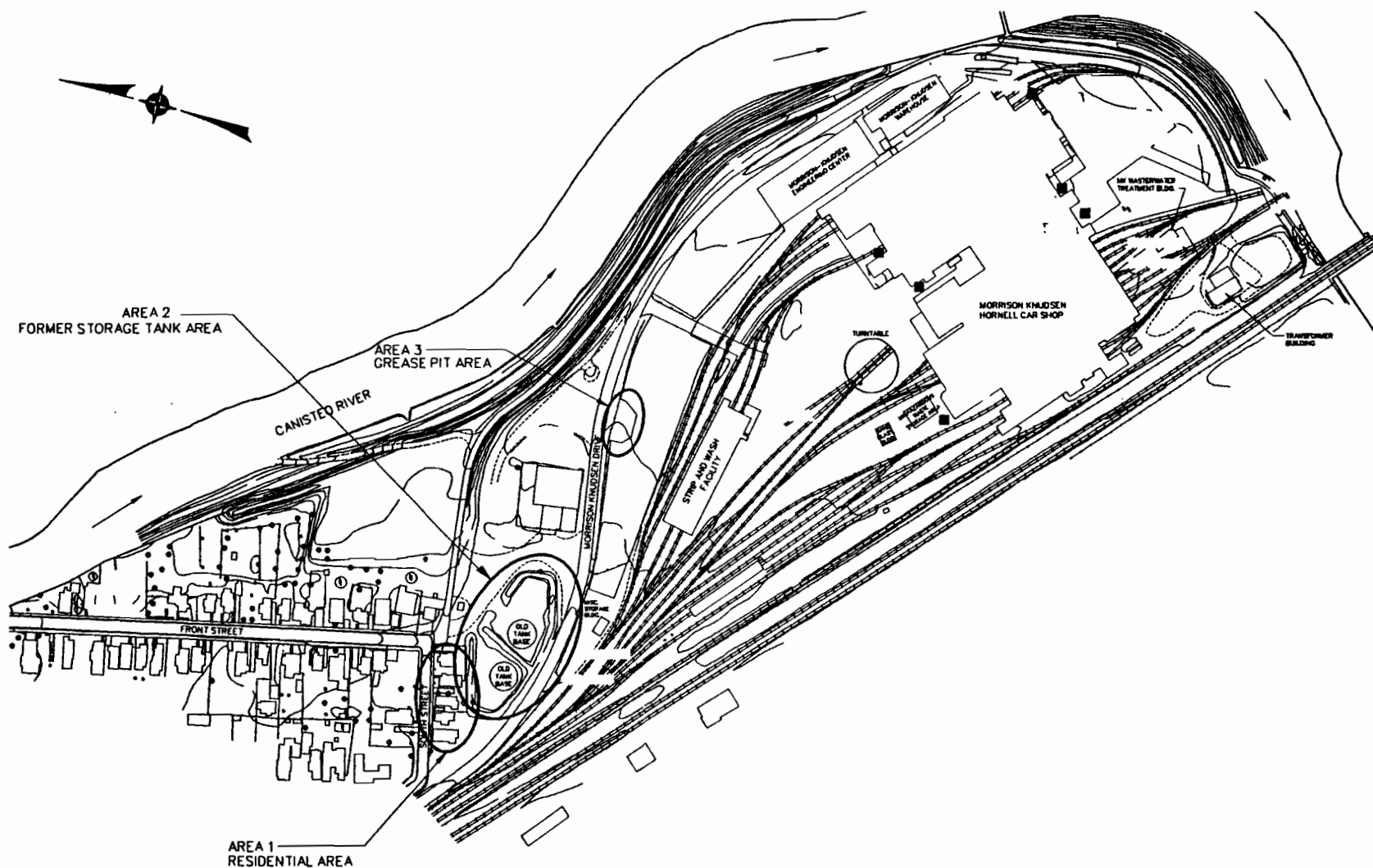


Figure ES-1

Areas of Concern
G.E. Hornell Site

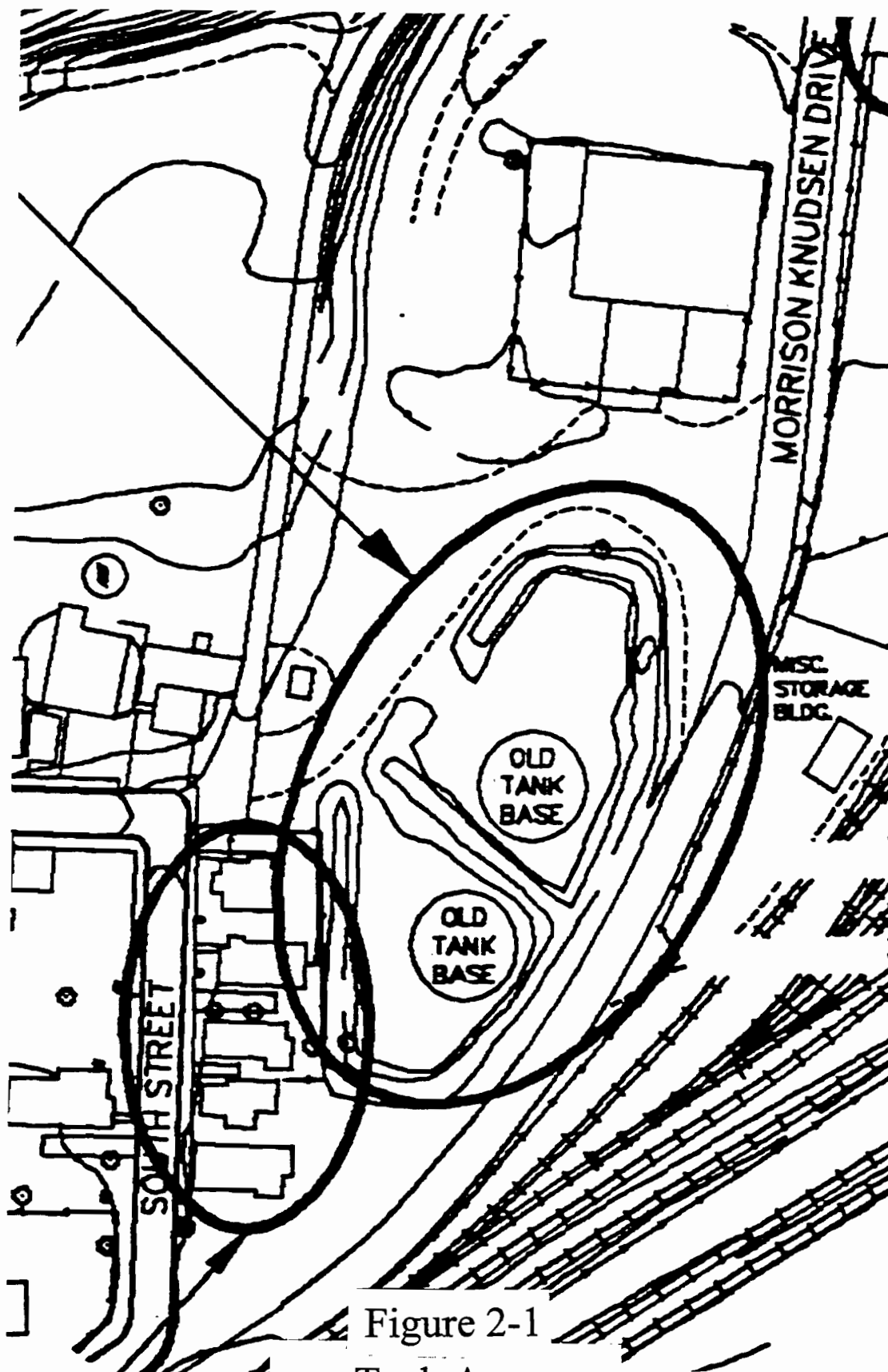


Figure 2-1
Tank Area
G.E. Hornell Site

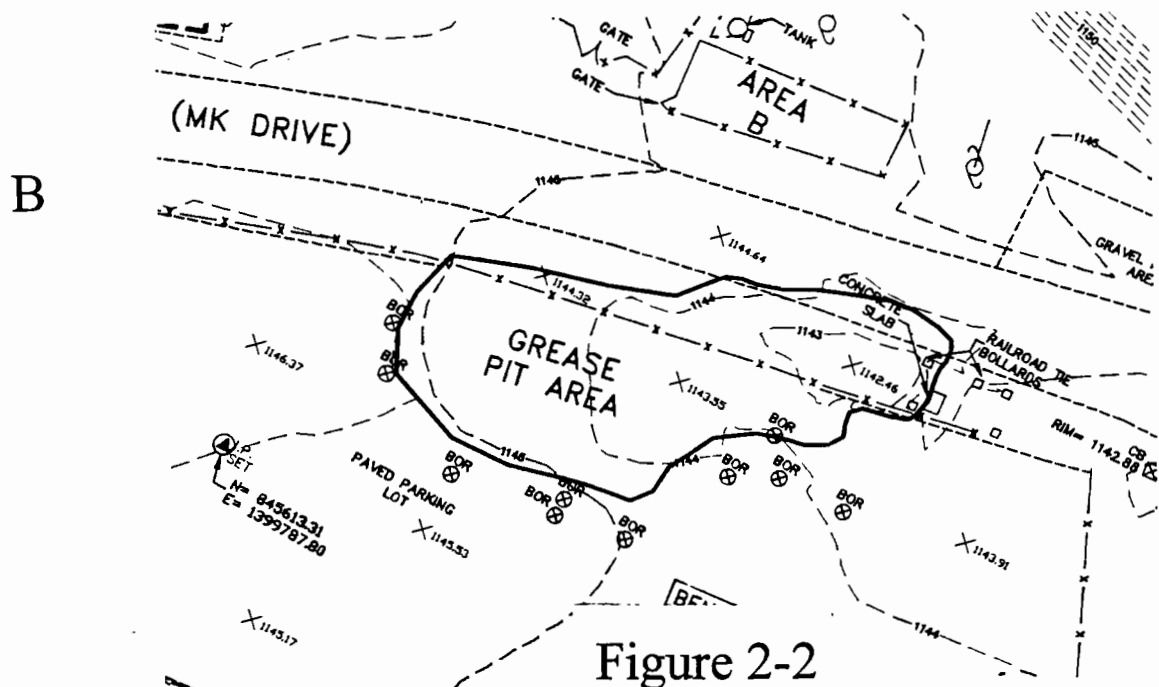
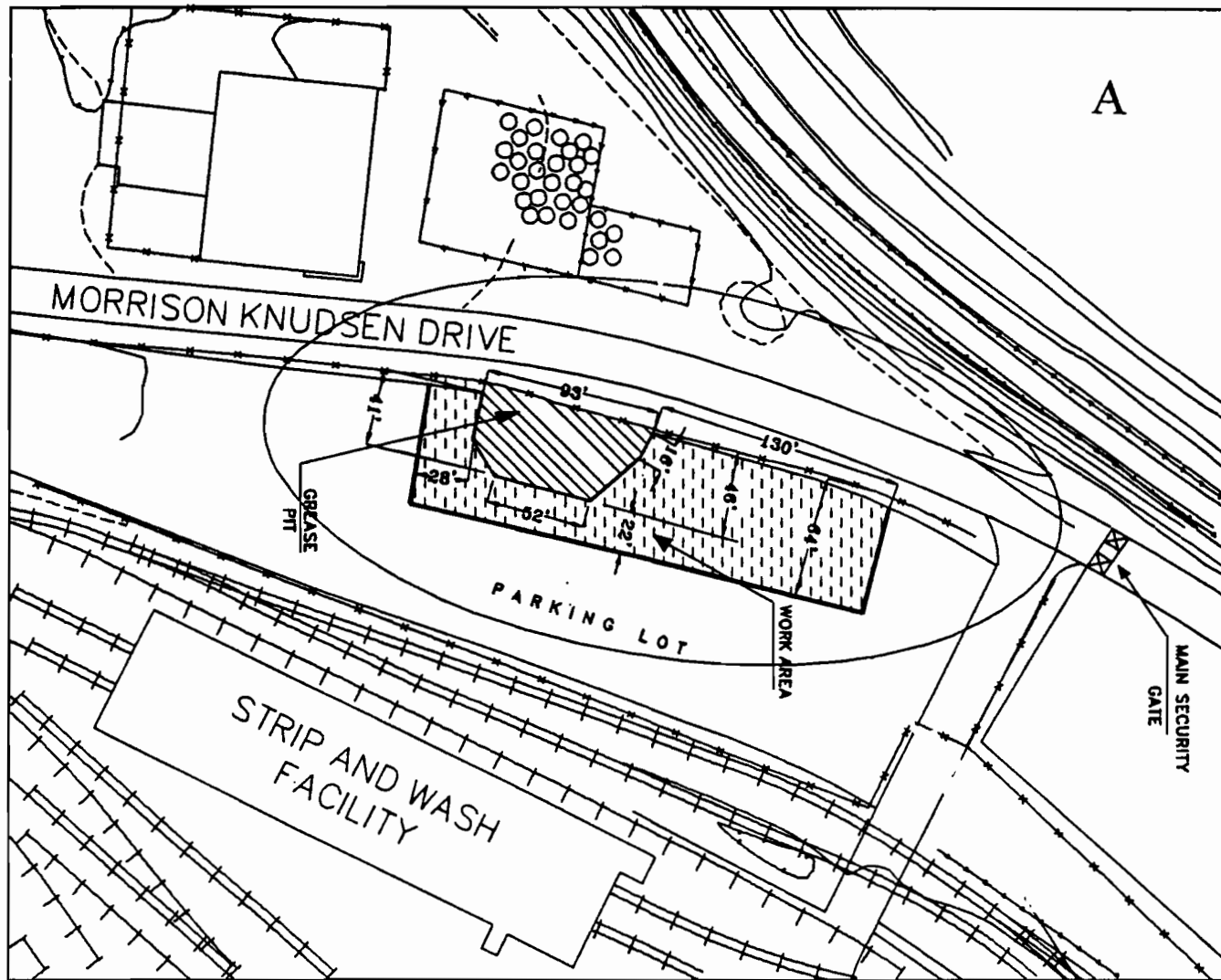


Figure 2-2

Grease Pit Area - Contract Specified (A) & Actual (B) Excavations
G.E. Hornell Site

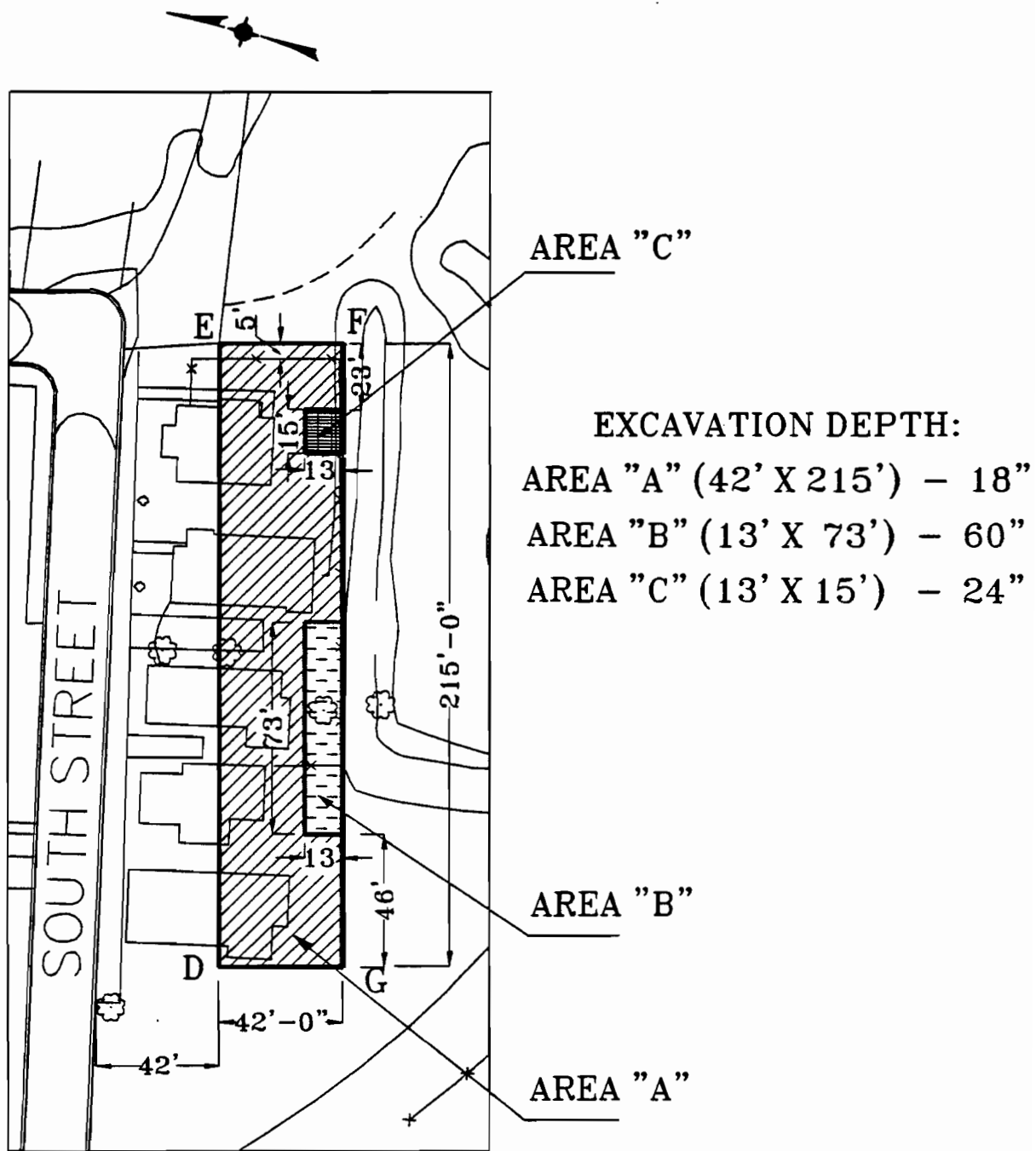


Figure 2-3

Residential Area
G.E. Hornell Site

Appendices

Appendix A

New York State Department of Environmental Conservation

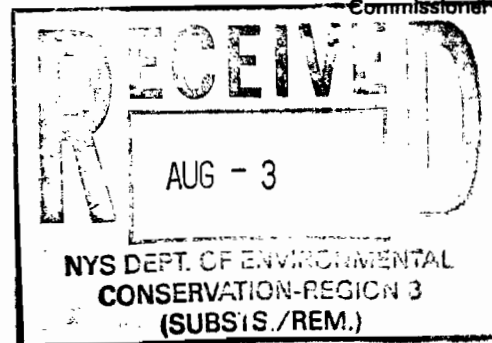
Division of Environmental Remediation

Bureau of Construction Services, Room 267
50 Wolf Road, Albany, New York 12233-7010
Phone: (518) 457-9280 FAX: (518) 457-7743



John P. Cahill
Commissioner

JUL 29 1998



Mr. Pat Baker
Phillips Environmental Services Corp.
1820 Elmwood Avenue
Buffalo, New York 14207

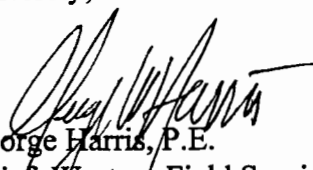
Dear Mr. Baker:

Re: Contract No. D003671
GE Hornell Site
Site No. 8-51-009
Change Order No. 1

Enclosed is an approved copy of Change Order No. 1 for your records.

If you have any questions, please contact David Crosby, P.E., of my staff, at (518) 457-9285.

Sincerely,


George Harris, P.E.
Chief, Western Field Services Section
Bureau of Construction Services
Division of Environmental Remediation

Enclosure

DAC/ts

bcc: w/enc.: D. Pratt/B. Long
(Region 8)

w/o enc.: G. Harris
C. Perry
K. Kenney
R. Dolan
D. Crosby
Dayfile

a:patbaker.let

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
CHANGE ORDER NO. 1**

Date of Issue: March 16, 1998

Change Order Amount: \$ 150,620.19

Contract Number: D003671

Project Name: Remediation of the Former G.E. Hornell Site

NYSDEC Site Number: 8-51-009

Contractor: Philip Environmental Services Corp.
1820 Elmwood Avenue
Buffalo, New York 14207

Change Order Items: This change order is comprised of the 7 items described below.

I. CHANGE ORDER ITEMS

- A. **Placement of sod:** This change in the original contract is for incremental costs associated with placement of sod in the residential area in lieu of seeding and mulching.

Description of Change: Reference Proposed Change Order No. 1 attached.

Reason for Change: This work was necessary in order to address New York State Department of Health concerns to provide the residents with a usable yard area within a reasonable time frame (original specifications called for seeding and mulching - due to late autumn completion, this would not be acceptable).

<u>Cost:</u> Area = 725 sq.yd.	@ \$1.64/sq.yd. =	\$	1,189.00
Credit = \$0.42/sq.yd.	@ 725 sq.yd. =	\$	(304.50)
- Contract Specified Overhead (5% + 5%)	=	\$	88.45
Labor (see PCO tracking form attached)	=	\$	469.86
- Contract Specified Overhead (10% + 5%)	=	\$	70.48
Hand Roller = 2 days	@ \$ 5 /day =	\$	10.00
- Contract Specified Overhead (5% + 5%)	=	\$	1.00
Total Cost for this item:		\$	1524.29

- B. **Paving change:** This change in the original contract is for a credit to the Department associated with the change in specifications for paving in the grease pit area.

Description of Change: Reference Proposed Change Order No. 2 attached.

Reason for Change: This change was necessary to match the new asphalt with the existing parking lot asphalt.

<u>Cost:</u>	Credit of \$4.46 / sq.yd	@ 1000 Sq.yd =	\$	(4460.00)
	Total Cost for this item:		\$	(4460.00)

- C. **Additional grease pit excavation:** This change in the original contract is for costs associated with the expanded excavation of contaminated soil in the grease pit area.

Description of Change: Reference Proposed Change Order No. 3a attached.

Reason for Change: Confirmatory sampling after completion of the initial grease pit excavation indicated elevated levels of contamination remained. Therefore, this work was necessary to remove additional contaminated soil from the grease pit.

<u>Cost:</u>	105 bags of cement	@ \$ 7.22 /bag =	\$	757.80
	- Contract Specified Overhead (5% + 5%) =		\$	75.78
	Kiln Dust - ~2 tons	=	\$	00.00
	Labor - (see PCO tracking form attached) =		\$	35.69
	- Contract Specified Overhead (10% + 5%) =		\$	5.35
	Loader - 2.5 hour	@ \$ 28.35 /hour =	\$	70.88
	- Contract Specified Overhead (5% + 5%) =		\$	7.09
	Excavator - 5 hours	@ \$ 95 /hour =	\$	475.00
	- Contract Specified Overhead (5% + 5%) =		\$	47.50
	Operator - (see PCO tracking form attached) =		\$	150.45
	- Contract Specified Overhead (10% + 5%) =		\$	22.57
	2 rolls poly sheeting	@ \$ 37 /roll =	\$	74.00
	- Contract Specified Overhead (5% + 5%) =		\$	7.40
	Cost of cement/kiln disposal @ \$ 136.5 / cu.yd.=		\$	798.50
	(97 lb. x 105 x 1 cu.ft. x 1 cu.yd. = 3.9 cu.yd. Cement)			
	97 lb. 27 cu.ft.			
	(4000 lb. x 1 cu.ft. x 1 cu.yd. = 1.5 cu.yd. Kiln Dust)			
	97 lb. 27 cu.ft.			
	Cost of cement/kiln disposal @ \$ 136.5 / cu.yd.=		\$	73.71
	(0.1x5.4 cu.yd. - addition weight due to wet cement			
	Unit Bid haz waste disposal @ \$136.5 / cu.yd.=		\$	57739.50
	(423 cu.yd. - surveyed 11-4-97)			
	Unit Bid haz waste disposal @ \$136.5 / cu.yd.=		\$	5773.95
	(0.1x423 cu.yd. - addition weight due to wet soil)			
	Unit Bid Backfill @ \$ 7 / cu.yd. =		\$	2961.00
	(423 cu.yd)			
	Total Cost for this item:		\$	69,076.17

- D. **Test Pits:** This change in the original contract is for costs associated with excavating test pits to help define the extent of excavation in Item C above.

Description of Change: Reference Proposed Change Order No. 4 attached.

Reason for Change: This work was necessary to help define the extent of excavation to be required under Item C above.

<u>Cost:</u> Operator - 1.5 hours	@ \$ 16.25 /hour =	\$	24.38
- Contract Specified Overhead (10% + 5%) =		\$	3.66
Excavator - 1.5 hours	@ \$ 95 /hour =	\$	142.50
- Contract Specified Overhead (5% + 5%) =		\$	14.25
Poly Sheeting- 0.5 roll	@ \$ 37 /roll =	\$	18.50
- Contract Specified Overhead (5% + 5%) =		\$	1.85
Total Cost for this item:		\$	205.14

- E. **Borings:** This change in the original contract is for costs associated with drilling borings to define the extent of excavation in Item F below.

Description of Change: Reference Proposed Change Order No. 5 attached.

Reason for Change: Confirmatory sampling after completion of the excavation in Item C above indicated elevated levels of contamination remained. This boring program was necessary to accurately define the areas which needed additional excavation.

<u>Cost:</u> 35 Borings - 12 feet each	@ \$ 8 /foot =	\$	3360.00
- Contract Specified Overhead (5% + 5%) =		\$	336.00
Laborer (see PCO tracking form attached) =		\$	999.20
- Contract Specified Overhead (10% + 5%) =		\$	149.88
Split spoons - 180	@ \$ 5 /spoon =	\$	900.00
- Contract Specified Overhead (5% + 5%) =		\$	90.00
Samples - 70	@ \$ 20 /sample =	\$	1400.00
- Contract Specified Overhead (5% + 5%) =		\$	140.00
Mob / Demob Driller	@ \$ 400 =	\$	400.00
- Contract Specified Overhead (5% + 5%) =		\$	40.00
Poly sheet / decon pad	@ \$ 37 /roll =	\$	37.00
- Contract Specified Overhead (5% + 5%) =		\$	3.70
Total Cost for this item:		\$	7855.78

- F. **Additional grease pit excavation:** This change in the original contract is for costs associated with the expanded excavation of contaminated soil in the grease pit area.

Description of Change: Reference Proposed Change Order No. 6 attached.

Reason for Change: This work was necessary to remove the remainder of the contaminated soil from the grease pit. Confirmatory sampling after completion of the excavation in Item C above indicated elevated levels of contamination remained.

<u>Cost:</u> Cement - 1440 70-pound bags @ \$ 3.55 / bag =	\$	5112.00
- Contract Specified Overhead (5% + 5%) =	\$	511.20
Laborer - (see PCO tracking form attached) =	\$	261.69
- Contract Specified Overhead (10% + 5%)=	\$	26.17
Forklift - 2 days @ \$ 79 /day =	\$	158.00
- Contract Specified Overhead (5% + 5%) =	\$	15.80
Excavator - 6.5 hours @ \$ 95 /hour =	\$	617.50
- Contract Specified Overhead (5% + 5%) =	\$	61.75
Operator - (see PCO tracking form attached) =	\$	273.05
- Contract Specified Overhead (10% + 5%)=	\$	40.96
Compressor - 4 hours @ \$ 11.75 /hour =	\$	47.00
- Contract Specified Overhead (5% + 5%) =	\$	4.70
Jack Hammer - 4 hours @ \$ 1.20 /hour =	\$	4.80
- Contract Specified Overhead (5% + 5%) =	\$	0.48
Cost of cement disposal @ \$136.5 / cu.yd.=	\$	5255.25
(70 lb. x 1440 x $\frac{1 \text{ cu.ft.}}{97 \text{ lb.}}$ x $\frac{1 \text{ cu.yd.}}{27 \text{ cu.ft.}}$ = 38.5 cu.yd.)		
Cost of cement/kiln disposal @ \$ 136.5 / cu.yd.=	\$	525.53
(0.1x 38.5 cu.yd. - addition weight due to wet cement		
Unit Bid haz waste disposal @ \$136.5 / cu.yd.=	\$	42465.15
(311.1 cu.yd. Surveyed - 11-26-97)		
Unit Bid haz waste disposal @ \$136.5 / cu.yd.=	\$	4246.52
(0.1x311.1 cu.yd. - addition weight due to wet soil)		
Unit Bid non-haz waste disposal @ \$ 37 / cu.yd.=	\$	10297.10
(278.3 cu.yd. Surveyed - 11-21-97)		
Unit Bid Backfill @ \$ 7 / cu.yd. =	\$	4125.80
(311.1 + 278.3 = 589.4 cu.yd.)		
Total Cost for this item:	\$	74,050.45

- G. **Cold Patch road surface:** This change in the original contract is for costs associated with the cold patch of the road surface.

Description of Change: Reference Proposed Change Order No. 7 attached.

Reason for Change: This work was necessary in order to reopen the road for the winter, since asphalt plants had shut down for the winter.

<u>Cost:</u> Patch - 35 tons	@ \$ 35.32 /ton =	\$	1390.55
- Contract Specified Overhead (5% + 5%) =		\$	139.06
Excavator - 4 hours	@ \$ 95 /hour =	\$	380.00
- Contract Specified Overhead (5% + 5%) =		\$	38.00
Operator - 4 hours	@ \$ 12.5 /hour =	\$	50.00
- Contract Specified Overhead (10% + 5%) =		\$	7.50
Laborer - (see PCO tracking form attached) =		\$	258.48
- Contract Specified Overhead (10% + 5%) =		\$	38.77
Tamper - 4 hours	@ \$ 15 /hour =	\$	60.00
- Contract Specified Overhead (5% + 5%) =		\$	6.00
Total Cost for this item:		\$	2368.36

- H. **Time Extension:** This change in the original contract is for a time extension to complete the contract.

Description of Change: A 90 day time extension is necessary to complete contract specified work.

Reason for Change: Paving was not possible due to asphalt plants shutting down for winter months. Time extension necessary to allow asphalt plants to reopen and supply paving materials.

Cost: There is no cost associated with the time extension = \$ 0.00

II. CHANGE ORDER NO. 1 SUMMARY

A.	PCO#1 - Placement of sod	\$	1,524.29
B.	PCO#2 - Paving change	\$	(4460.00)
C.	PCO#3 - Additional grease pit excavation	\$	69,076.17
D.	PCO#4 - Test Pits	\$	205.14
E.	PCO#5 - Borings	\$	7,855.78
F.	PCO#6 - Additional grease pit excavation	\$	74,050.45
G.	PCO#7 - Cold Patch road surface	\$	2,368.36
H.	Time Extension	\$	0.00
	Total	\$	150,620.19

III. CHANGE IN CONTRACT PRICE

Original Contract Price	\$	405,781.50
Net increase due to this Change Order	\$	150,620.19
New Contract Price including this Change Order	\$	556,401.69

IV. CHANGE IN CONTRACT TIME	CALENDER DAYS	COMPLETION DATE
Original Contract Time	180	02/13/98
Net due to this Change Order	90	05/13/98
New Contract Time including this Change Order	270	05/13/98

It is understood and agreed that unless expressly so stated above the work herein authorized will not extend the time for the completion of the contract.

It is understood and agreed that this change order represents full and complete compensation for all work described herein.

This work is to be performed in accordance with the terms of the Contract and original plans and specifications, except as herein modified. It is understood and agreed that this change order shall be deemed executory only to the extent of moneys available and no liability shall be incurred by the state beyond the moneys available for the purpose.

CONTRACT NUMBER D003671

IN WITNESS WHEREOF, representatives of the Department and the Contractor have executed this Contract on the day and year written beneath their respective signatures. The signatory for the Department provides the following Agency Certification: "In addition to the acceptance of this Contract, I also certify that original copies of this signature page will be attached to all other exact copies of this Contract."

Recommended:

By: [Signature]Title: AEPD IIIDate: 6/10/98

FOR DEPARTMENT

By: William P. AgrestTitle: Executive of Agency H&SDate: 7/2/98

FOR NYSDEC ENGINEER

By: David CrosbyTitle: Project EngineerDate: 6/3/98

FOR CONTRACTOR

By: [Signature]Title: General ManagerDate: 5/14/98

Approved as to form:

By: _____

Attorney General

Date: _____

Approved:

By: JUL 20 1998

State Comptroller

Date: [Signature]

STATE OF PA)
) SS:
COUNTY OF Montgomery

On the 14th day of May, 1998, before me personally came John Janier, to me known, who being duly sworn, did depose and say that (s)he resides in Amherst NY; that (s)he is General Manager of Philip Services Corp, the corporation described in and which executed the above instrument; that (s)he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by authority of the Board of Directors of said corporation and that (s)he signed his/her name thereto by the same authority.

Notarial Seal
Debra E. Caccese, Notary Public
Hatfield Twp., Montgomery County
My Commission Expires April 19, 1999

Debra E. Caccese
Notary Public

STATE OF)
) SS:
COUNTY OF)

On the ____ day of _____, 19____, before me personally came _____, to me known, who being duly sworn, did depose and say that (s)he resides in _____: that (s)he is _____ of _____, the corporation described in and which executed the above instrument; that (s)he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by authority of the Board of Directors of said corporation and that (s)he signed his/her name thereto by the same authority.

Notary Public

STATE OF)
) SS:
COUNTY OF)

On the ____ day of _____, 19____, before me personally came _____, to me known, who being duly sworn, stated that (s)he is a member of employee of _____, the firm described in and which executed the foregoing instrument, and (s)he acknowledged to me that (s)he subscribed his/her name thereto on behalf of said firm.

Notary Public

STATE OF)
) SS:
COUNTY OF)

On the ____ day of _____, 19____, before me personally came _____, to me known, who being duly sworn, stated that (s)he is a member of employee of _____, the firm described in and which executed the foregoing instrument, and (s)he acknowledged to me that (s)he subscribed his/her name thereto on behalf of said firm.

Notary Public

STATE OF)
) SS:
COUNTY OF)

On the ____ day of _____, 19____, before me personally came
_____, to me personally known, and known to me to be the individual
described in, and who executed the foregoing instrument, and (s)he duly acknowledged to me that (s)he
executed the same.

Notary Public

STATE OF)
) SS:
COUNTY OF)

On the ____ day of _____, 19____, before me personally came
_____, to me personally known, and known to me to be the individual
described in, and who executed the foregoing instrument, and (s)he duly acknowledged to me that (s)he
executed the same.

Notary Public

Appendix B

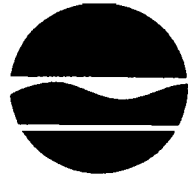
New York State Department of Environmental Conservation

Division of Environmental Remediation

Bureau of Construction Services, Room 267

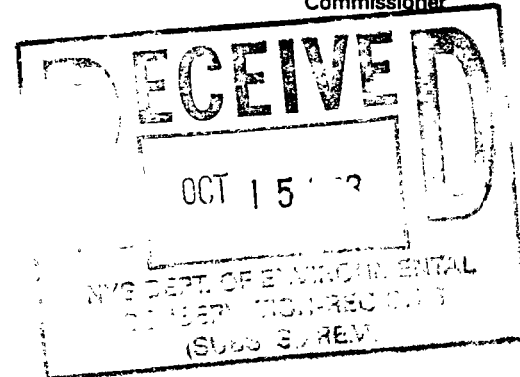
50 Wolf Road, Albany, New York 12233-7010

Phone: (518) 457-9280 FAX: (518) 457-7743



John P. Cahill
Commissioner

OCT 09 1998



Mr. Pat Baker
Phillips Environmental Services Corp.
495 Commerce Drive
Suite 7
Buffalo, New York 14228-2311

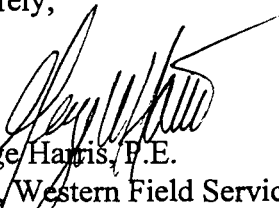
Dear Mr. Baker:

RE: Contract No. D003671
GE Hornell Site
Site No. 8-51-009
Change Order No. 2 (Final Change Orders)

Enclosed is an approved copy of Change Order No. 2 for your records.

If you have any questions, please contact David Crosby, P.E., of my staff, at 518-457-9285.

Sincerely,


George Harris, P.E.
Chief, Western Field Services Section
Bureau of Construction Services
Division of Environmental Remediation

Enclosure

DAC:mm

bcc: **D. Pratt/B. Long, Region 8, w/enclosure**

G. Harris, w/o enclosure

D. Norvik, w/o enclosure

C. Perry, w/o enclosure

K. Kenney, w/o enclosure

R. Dolan, w/o enclosure

D. Crosby, w/o enclosure

Dayfile

a:patbaker.108

IN WITNESS WHEREOF, representatives of the Department and the Contractor have executed this Contract on the day and year written beneath their respective signatures. The signatory for the Department provides the following Agency Certification: "In addition to the acceptance of this contract, I also certify that original copies of this signature page will be attached to all other exact copies of this contract."

Recommended:

By: [Signature]Title: ADDDate: 8/26/98

FOR NYSDEC ENGINEER

By: [Signature]Title: Env. Eng IIDate: 8/20/98

Approved as to Form:

By: _____

Attorney General

Date: _____

STATE OF PA)
) SS:
 COUNTY OF Montg)

On the 13th day of August, 1998, before me personally came John Lanier, to me known, who being duly sworn, did depose and say that (s)he resides in Amherst, NY, New York; that (s)he is Gen. Manager of PSC, the corporation described in and which executed the above instrument; that (s)he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by authority of the Board of Directors of said corporation and that (s)he signed his/her name thereto by the same authority.

FOR DEPARTMENT

By: William P. AgostoTitle: Supervisor Agency AcctgDate: 9-4-98

FOR CONTRACTOR

By: [Signature]Title: Gen Mgr.Date: 8/13/98Approved: [Signature]

Date: _____

State Comptroller

SEP 28 1998

Date: _____

[Signature]
 Notary Public
 Notarial Seal
 Debra E. Caccese, Notary Public
 Hatfield Twp., Montgomery County
 My Commission Expires April 19, 1999

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
CONSTRUCTION SERVICES BUREAU
FINAL CHANGE ORDER

Date of Issue: August 10, 1998

Change Order Number: 02

Change Order Amount: \$ 25,491.72

Contract Number: D003671

Project Name: Remediation of the Former G.E. Hornell Site
Steuben County, New York

NYSDEC Site Number: 8-51-009

Contractor: Philip Environmental Services Corp.
1820 Elmwood Avenue
Buffalo, New York 14207

Engineer: New York State Department of Environmental
Conservation, Division of Environmental Remediation.

Change Order Items: This change order comprises of 5 items described below

I. CHANGE ORDER ITEM

A. DESCRIPTION OF CHANGE:

Paving: This change in the original Contract is for Proposed Change Order No. 2

Paving was conducted in the grease pit area. The area of paving was measured by the NYSDEC Inspector and the contractor.

Reason for change:

The work was necessary because it was not completed last November due to the shut down of the asphalt plants for the winter.

Cost: Parking lot paving, Area = 611 SY @ \$ 6.78/SY \$ 4,142.58

Total: \$ 4,142.58

received
Aug 12, 1998
P. Baker
Philip Env. Serv. Corp.

B. DESCRIPTION OF CHANGE:

Paving: Paving was conducted in the roadway. The area of paving was measured by the NYSDEC Inspector and the contractor.

Reason for change:

The work was necessary because the roadway which was repaired last November had settled during the winter. The City requested and the Department agreed to the placement of subbase material to allow for vehicle traffic prior to their paving of the road in the Fall of 1998.

Cost:	Roadway,	Area = 234 SY @ \$ 6.78/SY	\$ 1,586.52
	Contract Specified Overhead (5% + 5%)		\$ 263.02
	Total:		\$ 1,749.14

C. DESCRIPTION OF CHANGE:

Site Services Days: To correct the total number of site service days associated with the remedial work conducted last November. Work included removal of contaminated soil not within the original excavation area.

Cost:	32 days @ \$ 560.00/day	\$ 17,920.00
--------------	-------------------------	--------------

D. DESCRIPTION OF CHANGE:

Health and Safety Days: To correct total number of health and safety days from the remedial work conducted last November. Work included removal of contaminated soil not within the original excavation area.

Cost:	3 days @ \$ 560.00/day	\$ 1,680.00
--------------	------------------------	-------------

E. DESCRIPTION OF CHANGE

Time Extension: This change in the original contract is for a time extension to complete the contract.

Description of change: A twenty-five (25) day time extension is necessary to complete the specified work.

Cost: There is no cost associated with the time extension.

II. CHANGE ORDER SUMMARY:

A.	Paving:	\$ 4,142.58
B.	Paving:	\$ 1,749.14
C.	Site Service Days:	\$ 17,920.00
D.	Health and Safety Days:	\$ 1,680.00
E.	Time Extension:	\$ 0.00
Total Change Order:		\$ 25,491.72

III. Change in Contract Price:

Original Contract Amount	\$ 405,781.50
Change Order No. 1	\$ 150,620.19
Final Change Order	\$ 25,491.72
New Contract Price including Final Change Order	\$ 581,893.41

IV Change In Contract Time:

Notice to Proceed		August 5, 1997
Original Contract Time:	180 days	February 13, 1998
Additional Time Change Order No. 1:	90 days	May 13, 1998.
Additional Time Final Change Order	25 days	June 8, 1998
New Contract Time	295 days	June 8, 1998

It is understood and agreed that, unless expressly so stated above, the work herein authorized will not extend the time for completion of the Contract.

This work is to be preformed in accordance with the terms of the Contract and original plans and specifications, except as herein modified. It is understood and agreed that this change order represents full and complete compensation for all work described herein. It is understood and agreed that this change order shall be deemed executory only to the extent of moneys available and no liability shall be incurred by the State beyond the money available for the purpose.

STATE OF)
) SS:
COUNTY OF)

On the ____ day of _____, 19 __, before me personally came _____, to me known, who being duly sworn, did depose and say that (s)he resides in _____, New York: that (s)he is _____ of _____, the corporation described in and which executed the above instrument; that (s)he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by authority of the Board of Directors of said corporation and that (s)he signed his/her name thereto by the same authority.

Notary Public

STATE OF)
) SS:
COUNTY OF)

On the ____ day of _____, 19 __, before me personally came _____, to me known and, being duly sworn, stated that (s)he is a member of employee of _____, the firm described in and which executed the foregoing instrument, and (s)he acknowledged to me that (s)he subscribed his/her name thereto on behalf of said firm.

Notary Public

STATE OF)
) SS:
COUNTY OF)

On the ____ day of _____, 19 __, before me personally came _____, to me known and, being duly sworn, stated that (s)he is a member of employee of _____, the firm described in and which executed the foregoing instrument, and (s)he acknowledged to me that (s)he subscribed his/her name thereto on behalf of said firm.

Notary Public

STATE OF)
) SS:
COUNTY OF)

On the ____ day of _____, 19 __, before me personally came _____, to me personally known, and known to me to be the individual described in, and who executed the foregoing instrument, and (s)he duly acknowledged to me that (s)he executed the same.

Notary Public

STATE OF)
) SS:
COUNTY OF)

On the ____ day of _____, 19 __, before me personally came _____, to me personally known, and known to me to be the individual described in, and who executed the foregoing instrument, and (s)he duly acknowledged to me that (s)he executed the same.

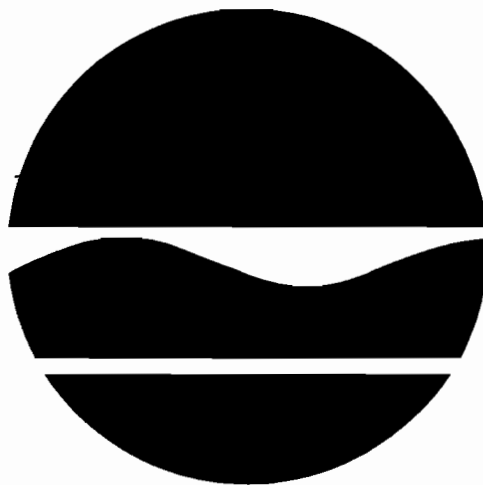
Notary Public

Appendix C

FORMER G.E. HORNELL SITE
I.D. # 8-51-009
CITY OF HORNELL, STEUBEN COUNTY

RESIDENT RELOCATION PLAN

September 1997



Prepared by:
Division of Environmental Remediation
New York State Department of Environmental Conservation

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SECTION 1: GENERAL INFORMATION

1.0: INTRODUCTION

As part of cleanup activities at the Former GE Hornell inactive hazardous waste disposal site, the New York State Department of Environmental Conservation (NYSDEC) will be removing soil from the backyards of five homes on South Street in Hornell. While soil removal is occurring, the Department is offering to relocate affected residents. The Department prepared this plan to outline the relocation program that will be offered to residents. The plan will be flexible so that NYSDEC can work with individual residents to ensure that their concerns are addressed and the project is completed in a safe and timely manner.

1.1: PROJECT LOCATION

The site is located near the AMERAIL plant in the City of Hornell, Steuben County (please see figure 1). The Canisteo River forms the eastern and southeastern borders of the site. Railroad tracks run through the western and southwestern portion of the site. A residential neighborhood is located to the north of the site. Another residential area is located beyond the railroad tracks towards the western part of the site.

1.2: SITE HISTORY AND INVESTIGATIONS

Until 1976, the Erie-Lackawanna Railroad owned the property and operated a railcar construction and repair shop and a locomotive refueling area (now called the strip and wash facility) at the site. Conrail owned the property from 1977 to 1978. In 1978, the City of Hornell Industrial Development Agency acquired some of the property and rented the service shops to the General Electric Company, which operated there until 1985. The refueling facility remained under Conrail's ownership and operation.

New York State conducted an environmental investigation of hazardous waste related contamination at the site from 1992 to 1994. The investigation revealed soil in an area known as the "grease pit" (see figure 1) is primarily contaminated with lead. The investigation also showed surface soils in a former tank storage area and in adjacent residential yards are contaminated with lead. Other contaminants related to a 1980 oil spill were also found in soil and groundwater.

In 1980, a major diesel fuel oil spill was found in the Canisteo River and on land near the refueling facilities operated by Conrail. As a result, the New York State Department of Transportation (DOT) installed and operated five recovery wells. DOT operated the wells until April 1986, at which time the wells had recovered as much of the spilled fuel as possible. The New York State Department of Environmental Conservation's Spill Prevention and Response program is negotiating with Conrail to investigate current conditions in the spill impact area, which is separate from the areas included in the current cleanup project.

1.3: RECORD OF DECISION

In early 1994 the State presented a proposed cleanup plan to the public based on the results of the environmental investigation. After receiving public input on the plan, in March 1994 the State finalized the chosen remedial (cleanup) plan in a document called a Record of Decision (ROD). Because attempts to get the parties responsible for the contamination to implement the cleanup were unsuccessful, NYSDEC decided to proceed with the cleanup using funds from the 1986 Environmental Quality Bond Act. The State has selected Philip Environmental Services Corp. of Buffalo to perform the cleanup work. The ROD calls for the State to:

- Excavate soil from the grease pit area and dispose of it at a landfill permitted to accept that type of waste.
- Excavate some soil from the berm around the former tank area and use it to backfill the grease pit area. Clean fill will be placed over the backfilled soils. The former tank area will be covered with a layer of fill followed by a layer of top soil.
- Excavate contaminated soil in five back yards. The yards will be backfilled with clean soil and covered with sod.

After construction is complete, the State will implement a long-term maintenance program for the soils placed over the former tank area.

SECTION 2: IMPACT OF CONSTRUCTION ON SURROUNDING RESIDENCES

2.0: GENERAL CONSTRUCTION ACTIVITIES

Work began on August 18, 1997. During the first two weeks of the project, the contractor brought equipment to the site and prepared the site for work. Activities included setting up field trailers and associated equipment (such as telephone connections), marking locations for the excavations, establishing soil staging areas, obtaining permits, and preparing access roads.

The contractor will remove drums left at the site from the environmental investigation performed in 1992-1994. After the drum removal is complete, the contractor will excavate the soil from the grease pit and transport it to an approved landfill. The contractor will use heavy equipment such as bulldozers, dump trucks and other equipment to excavate and transport the soils for off-site disposal in tractor trailers and/or rolloffs. Rolloffs are transport containers which can be removed from the transport trailers and staged on the site for periods of time.

The grease pit area will be backfilled with some soil from the berm in the former tank area, and then the contractor will place the fill and top soil layers in the former storage tank area. The last activity to be completed will be removal of soil from residential back yards.

The contractor will implement a health and safety program and an air monitoring program to ensure that 1) work is conducted in a manner which is protective of workers and the community, and 2) dust levels are kept below an allowable limit set by NYSDEC and New York State

Department of Health (NYSDOH). The excavation and related activities will be carried out in a controlled manner to minimize the dispersion of dust from the site. The contractor is also required to perform all work during the day to minimize disturbances to the surrounding neighborhood. The entire project is expected to take approximately four months to complete.

To further protect residents during the remedial construction activities, residents will be asked to keep doors and windows closed during working hours. The contractor will be required to place plastic sheeting on the sides of any home within 25 feet of excavation activities. These plastic sheets will be taken down at the end of every day.

2.1: REASONS FOR THE RELOCATION PROGRAM

The NYSDEC and NYSDOH have established an optional resident relocation program due to the inconveniences and potential physical hazards associated with the soil excavation activities, the use of heavy machinery and other site related activities.

2.2: ELIGIBLE RESIDENCES

The relocation program is offered to residents on South Street who meet one or more of the following criteria:

1. Soil excavation activities will take place on the resident's property.
2. Soil excavation activities will take place on a property located adjacent to the resident's property.

Please note that the Contractor will be placing barricade fencing to establish the "exclusion zone". As a safety precaution, residents will not be allowed to access the portions of the property that are within the fenced exclusion zone.

Applying these criteria, the residents who will be offered relocation during the construction activities at the site are listed below. Figure 2 shows the limits of excavation activities and the residences which will be relocated during the excavation activities in the residential area.

- * 101 South Street
- * 103 South Street
- * 105 South Street
- * 107 South Street
- * 109 South Street

The relocation program is voluntary on the part of the eligible residents and will be implemented only during the contractor's working hours, which are discussed in detail in Section 3.1.

Additionally, during construction activities in the tank area behind numbers 103, 105, 107 and 109 South Street, the backyards of these properties will be designated as part of the "exclusion zone". The residents will not be allowed access to this zone during ongoing work as a safety precaution.

2.3: RELOCATION SCHEDULE

Soil excavation activities in the residential area are expected to begin in October 1997 and will be completed within two to three weeks. Each residence can expected to be relocated for approximately 3 to 7 days during this two to three week period. Table 1 is a bar chart schedule which shows the preliminary relocation scheduling for each residence.

Residents should note that this scheduling is preliminary. The duration of the relocation may increase due to adverse weather conditions, equipment malfunctions, etc. The Relocation Coordinator will keep participating residents informed of the Contractor's schedule and its impact on relocation as the project progresses.

The Department will update the schedule as more accurate information is obtained from the contractor before and during construction to reflect actual contractor progress. Residents will be given one week notice followed by a 24-hour notice of construction activities which will require their relocation. The daily scheduling of relocation activities is described in Section 3.1.

SECTION 3: RELOCATION PROGRAM DETAILS

A meeting was held in Hornell with the eligible South Street residents on April 8, 1997. State staff also met with residents individually on June 27, 1997 to determine the which residents would elect to be relocated during the project and what their needs would be. However, NYSDEC is aware that residents' needs may change once construction begins. Therefore, residents are encouraged to contact the Relocation Coordinator if any significant events occur that could affect their relocation needs.

3.0: RELOCATION COORDINATOR

The Relocation Coordinator for this project will be:

Meaghan Boice-Green
New York State Department of Environmental Conservation
6274 East Avon-Lima Road
Avon, NY 14414
(716) 226-2466

Meaghan will be coordinating all activities related to the relocation program. Meaghan will

available at the site during all activities requiring relocation and will be present at the field office located adjacent to AMERAIL's security gate. If you have any questions or special needs, you should contact her first. She has a dedicated telephone line with an answering machine and a pager to prevent delays in meeting the relocation needs of residents.

The Relocation Coordinator's dedicated telephone number is (607) 324-8672. Her pager number is (716) 452-0844.

3.1: DAILY SCHEDULE

Relocation will be offered to residents on a daily basis. The Department will relocate residents only during the contractor's working hours to minimize the residents' risk of encountering physically hazardous activities. Residents will only be asked to be out of their homes overnight if an emergency arises. The Department does not expect that this will be necessary. Residents who require rooms on an overnight basis can make arrangements with the Relocation Coordinator.

When the contractor is excavating soil from the backyards, the contractor's work will be restricted to weekdays between the hours of 9 a.m. and 4 p.m. Any residential yard work conducted outside of this time frame must be approved by, and scheduled with, NYSDEC and the construction supervision personnel at the site. Residents will be notified of any residential yard work which is scheduled to occur outside normal hours.

Residents who require transportation by NYSDEC to and from the relocation facility will be relocated between 8:30 and 8:45 a.m. and will be returned to their homes between 4:15 and 4:30 p.m.. For any residents who provide their own transportation, the designated relocation facilities will be available from 8 a.m. to 5 p.m.

3.2: RELOCATION FACILITIES

Residents will be offered hotel rooms at the Comfort Inn on Canisteo Square in Hornell. The Comfort Inn has a pool, a fitness room, and a cable TV in each room. Small refrigerators can be provided in a room if needed by the residents. The phone number at the Comfort Inn is (607) 324-4300.

As a result of the information gathered during recent meetings between the Department and the residents, only one household may require hotel accommodations during various parts of the construction project. No residents have requested a refrigerator.

All hotel arrangements will be made by the Relocation Coordinator. Therefore, *residents should NOT contact the Comfort Inn directly*. All room requests or other issues involving the relocation program should be directed to the Relocation Coordinator.

Residents should be aware that the Department will be making arrangements for the payment of hotel rooms which are intended for use during the relocation hours of 8 a.m. to 5 p.m.. Any room used outside of these hours must be arranged in advance with the Relocation Coordinator and paid for by the resident.

3.3: TRANSPORTATION

The Department is offering to provide transportation for all residents between their homes and the Comfort Inn. Based on meetings with the residents, no residents will require transportation services.

The Department will obtain the services of a licensed taxi company, Eagle Cab, to provide transportation services on an as-needed basis. Therefore, if unforeseen transportation requirements arise (such as a canceled after-school activity), residents are strongly encouraged to notify the Relocation Coordinator immediately. The safety and convenience of the residents, especially children, is of utmost importance to the Department and the other parties involved with coordinating this program.

Residents should be aware that the Department will pay for the costs of transportation only if the taxi request is coordinated through the Relocation Coordinator. Therefore, residents should not request or obtain transportation directly from Eagle Cab, because these costs may not be reimbursed.

3.4: MEALS

Residents who are relocated will be reimbursed up to a maximum daily allowance of \$6.00 for lunch only. Residents should obtain receipts and submit them to the Relocation Coordinator. The Relocation Coordinator will assist the residents in filling out and submitting a voucher for reimbursement by the Department.

In addition to the various fast food restaurants around town, there are several full-service restaurants located close to the Comfort Inn.

3.5: PETS

The Department is offering to place pets in a local kennel. However, all residents who have pets indicated during interviews that kennel services were not required. Should any residents require kennel services during the relocation program, the residents should contact the Relocation Coordinator.

SECTION 4: ADDITIONAL CONTACTS

4.1: NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION CONTACTS

Residents with technical questions may contact any of the following people:

David Pratt, P.E.	Amar Nagi	Robert Long
Project Engineer	Project Manager	Construction Inspector
NYSDEC	NYSDEC	NYSDEC
6274 East Avon-Lima Rd.	50 Wolf Rd.	6274 East Avon-Lima Rd.
Avon NY 14414-9519	Albany, NY 12233-7010	Avon, NY 14414-9519
(716) 226-2466	(518) 457-7878	(716) 226-2466

Mr. Pratt and Mr. Nagi are responsible for the management of the construction phase of the project. Mr. Long has been involved with the project for several years and is responsible for the day-to-day construction over-sight. Residents may contact Mr. Long at the field office at the site during construction activities.

Additionally, NYSDEC personnel may be reached by calling the Department's Environmental Remediation Program in Albany, toll-free at (800) 342-9296. Residents will need to leave a message and someone will return their call.

4.2: HEALTH AND SAFETY CONTACTS

Residents who have any questions or concerns regarding health and safety issues should bring their concerns to the Relocation Coordinator. The Relocation Coordinator will then contact appropriate State staff and the Contractor to resolve the questions or concerns in a manner satisfactory to the residents.

Residents with specific health questions may also contact:

Mark VanValkenburg, Environmental Health Specialist
or
Nina Knapp, Health Liaison
NYS Department of Health
2 University Place
Albany, NY 12203
1-800-458-1158 ext. 6309 - Mr. VanValkenburg
ext. 6402 - Ms. Knapp

SECTION 5: GENERAL PROJECT INFORMATION

All project related documents are available for public review at:

Hornell Public Library	New York State Department of Environmental Conservation
64 Genesee Street	6274 East Avon-Lima Rd..
Hornell, NY 14843	Avon NY 14414-9519
(607) 324-1210	(716) 226-2466
Hours: Mon.-Th. 10-8 pm	Hours: 8:30-4:45 pm
Fri. 10-5 pm	
Sat. 10-2 pm	

Additionally, residents with questions may contact or stop in at the Department field office during the hours of construction.

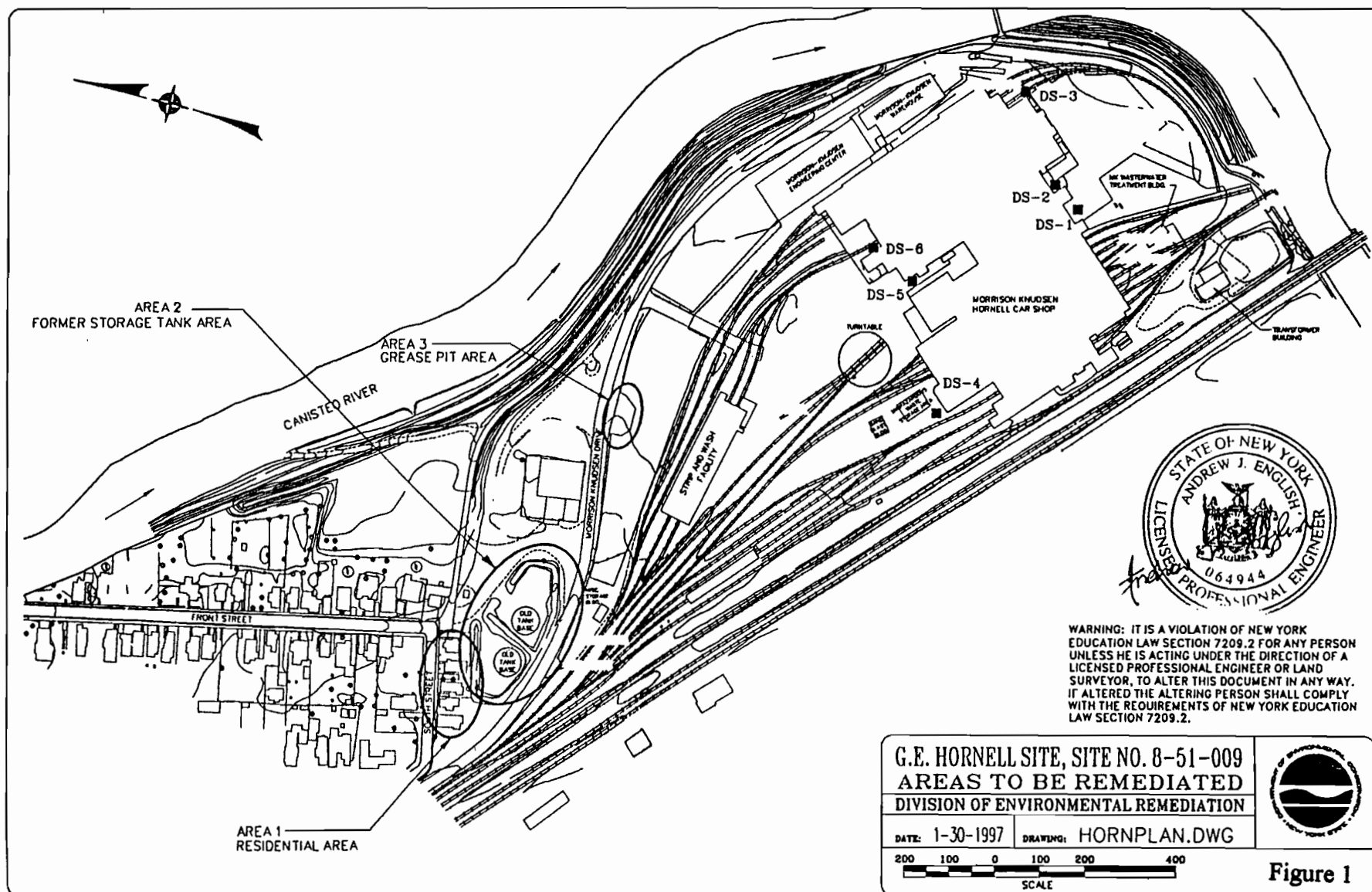
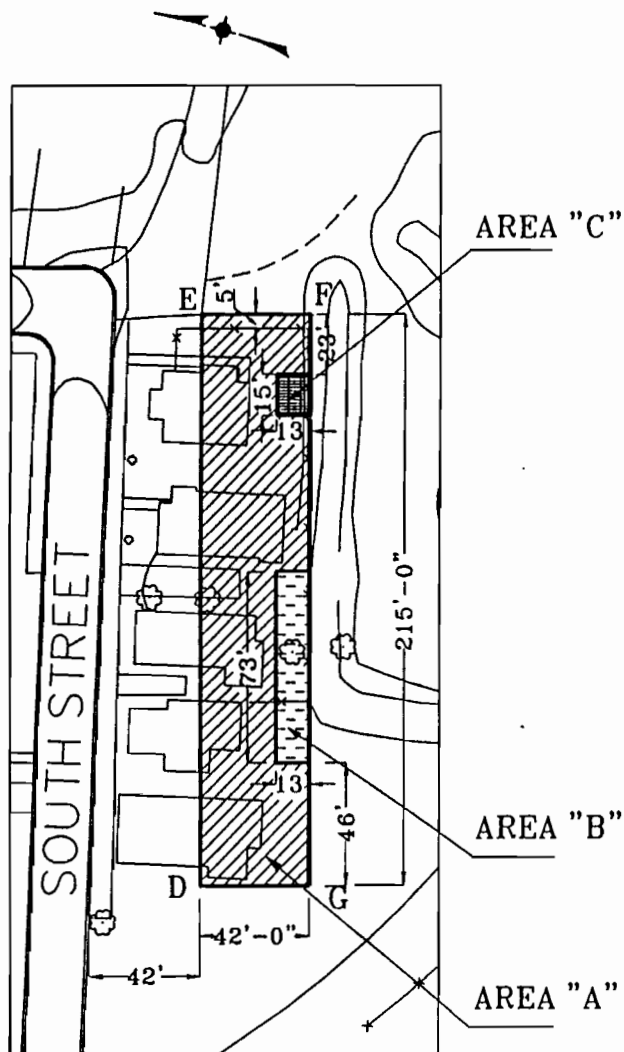


Figure 1



EXCAVATION DEPTH:
 AREA "A" (42' X 215') - 18"
 AREA "B" (13' X 73') - 60"
 AREA "C" (13' X 15') - 24"

NOTE:
 POINT 'D' IS MEASURED FROM THE CURB
 LINE 'FG' IS LOCATED ALONG THE FENCELINE
 POINT 'E' IS MEASURED FROM THE FENCELINE



WARNING: IT IS A VIOLATION OF NEW YORK EDUCATION LAW SECTION 7209.2 FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATION LAW SECTION 7209.2.

ALL DIMENSIONS SHALL BE MARKED AS INDICATED HERE
 OR AS DIRECTED BY THE ENGINEER

RESIDENTIAL AREA

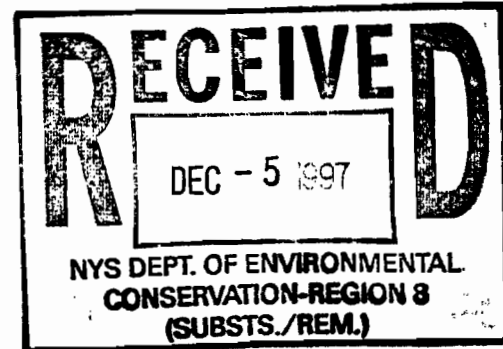
G.E. HORNELL SITE, SITE NO. 8-51-009		
RESIDENTIAL AREA EXCAVATION		
DIVISION OF ENVIRONMENTAL REMEDIATION		
DATE: 1-30-97	DRAWN BY: RESIDE 3. DWG	
NO SCALE		Figure 2

Table 1. Preliminary Work/Relocation Schedule for Former GE Hornell Site Cleanup Project

Contractor's Activity	Expected duration	Start	Finish
Mobilize onto the site, perform survey	~ 10 days	Aug. 18	Aug. 29
Prepare site for work (clear brush, install decontamination areas, etc.)	~ 2 weeks	Aug 29	Sept. 12
Excavate & backfill grease pit; Complete associated tasks	~30 days	Sept. 15	Oct. 16
Excavate residential yards starting with 109 South St.	~ 10 days	Oct. 17	Oct. 30
Place vegetation on site	~10 days	Oct. 31	Nov. 13
Perform final survey	~ 4 days	Nov. 14	Nov. 17
Complete final work; Demobilize and leave site	up to 60 days	Nov. 20	Feb. 13, 1998

Appendix D

for Dave Pratt



VIKING OFFICE PRODUCTS Form No. FM2
To reorder call toll-free 1-800-421-1222

Fold at arrows to fit Viking double-window envelope no. 772922

FROM

A. May
DEC.

Nagi

QUICK MEMO

DATE: 10-8-97

ATTENTION: Dan Morjon
Kevin Poeltl

TO

Philip Environmental Services

SUBJECT: P.C.O. No 1
Site M 8-51-009

P.C.O.

Per Article 9.4 of General Conditions of Contract, please provide your cost proposal within 3 days to:

MESSAGE

- Provide material and labor for laying sod in residential house approximately 600 sq yds. The sod must conform to the NYSDOT Specification # 713-14

- Credit for material and labor for providing seed and mulch in residential house per contract specifications for approximately 600 sq yds.

SIGNED

for Dave Pratt

cc Dave Pratt
R Long.

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
CONSTRUCTION SERVICES BUREAU
PROPOSED CHANGE ORDER NO. 2**

Date of Issue: October 10, 1997

Contract Number: D003671

Project Name: Remediation of the Former G.E. Hornell Site

NYSDEC Site Number: 8-51-009

Contractor: Philip Environmental Services Corp.
1820 Elmwood Avenue
Buffalo, New York 14207

I. GENERAL

- A. This Proposed Change Order (PCO) is issued to define the scope of work for paving the grease pit area at the above site.
- B. The general character of the work described by this PCO is similar to the originally specified work in the Contract Documents. All work necessary for the execution of this PCO shall be included whether specifically mentioned or not.
- C. The Contractor shall prepare and submit a detailed cost proposal, including quotes, as appropriate, to the Engineer substantiating prices for the proposed activities, to be used in preparation of a Change Order in accordance with Article 9.4 of the General Conditions. This cost proposal shall become due within three (3) days of receipt of this PCO and shall be submitted in accordance with Articles 9, 10 and 11 of the General Conditions.

II. DESCRIPTION OF CHANGE

This change in the original contract is to perform all work necessary to provide a base course in the grease pit area as specified below:

- A. Replace the 4 inches thick compacted (premixed, bituminous-aggregate mixture) base course specified in the contract specification section 02513 with 4 inches (compacted thickness) of select fill consisting of Type 2 material conforming to NYSDOT's Standard Specifications section 304.
- B. All work must be completed within the completion time specified in the Contract Documents.
- C. All other provisions of Contract Documents remain unchanged.

III. REASON FOR CHANGE

This change is necessary to provide paving consistent with the existing parking lot.

IV. PAYMENT FOR CHANGE

- A. The contractor will be paid on a unit price basis for each sq. yd. as included in bid item No. 5 of the contract documents.
- B. No additional increases in site preparation, site services, health-and-safety costs, or other costs will be accepted in relationship to this additional work.

Issued By:

Amarinderjit S. Nagi, P.E.
Project Manager
NYSDEC
Division of Environmental Remediation
Bureau of Construction Services
Central Field Services Section

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
CONSTRUCTION SERVICES BUREAU
PROPOSED CHANGE ORDER NO. 3**

Date of Issue: October 15, 1997

Contract Number: D003671

Project Name: Remediation of the Former G.E. Hornell Site

NYSDEC Site Number: 8-51-009

Contractor: Philip Environmental Services Corp.
1820 Elmwood Avenue
Buffalo, New York 14207

I. GENERAL

- A. This Proposed Change Order (PCO) is issued to define the scope of work for expanding the grease pit excavation at the above site.
- B. The general character of the work described by this PCO is similar to the originally specified work in the Contract Documents. All work necessary for the execution of this PCO shall be included whether specifically mentioned or not.

II. DESCRIPTION OF CHANGE

This change in the original contract is to perform all work necessary to expand excavation in the grease pit area as specified below:

- A. ~~Extend grease~~ pit excavation to remove contaminated soil from surface to 12 feet below grade or water table (whichever is first). Limits of excavation will be defined by the NYSDEC Inspector based on visual examination of soil conditions encountered. The area to be excavated will begin at the east end of the Contract defined area. Clean soils already used for backfill shall be stockpiled for reuse.
- B. All work must be completed within the completion time specified in the Contract Documents.
- C. All other provisions of Contract Documents remain unchanged.

III. REASON FOR CHANGE

This change is necessary for removal of remaining contaminated soil.

IV. PAYMENT FOR CHANGE

- A. The contractor will be paid on a unit price basis for each cubic yard as included in bid items No. 4a and 4b of the contract documents.
- B. No additional increases in site preparation, site services, health-and-safety costs, or other costs will be accepted in relationship to this additional work.

Issued By:

David Pratt, P.E.
Project Engineer
NYSDEC
Division of Environmental Remediation
Region 8 - Avon

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
CONSTRUCTION SERVICES BUREAU
PROPOSED CHANGE ORDER NO. 3a**

Date of Issue: October 24, 1997

Contract Number: D003671

Project Name: Remediation of the Former G.E. Hornell Site

NYSDEC Site Number: 8-51-009

Contractor: Philip Environmental Services Corp.
1820 Elmwood Avenue
Buffalo, New York 14207

I. GENERAL

- A. This Proposed Change Order (PCO) is issued to define the scope of work for expanding the grease pit excavation at the above site.
- B. The general character of the work described by this PCO is similar to the originally specified work in the Contract Documents. All work necessary for the execution of this PCO shall be included whether specifically mentioned or not.

II. DESCRIPTION OF CHANGE

This change in the original contract is to perform all work necessary to expand excavation in the grease pit area as specified below:

- A. Extend grease pit excavation to remove contaminated soil from surface to 12 feet below grade or water table (whichever is first). Exact limits of excavation will be defined by the NYSDEC Inspector based on visual examination of soil conditions encountered. The area to be excavated will begin at the east end of the Contract defined area. Clean soils already used for backfill shall be stockpiled for reuse.
- B. All work must be completed within the completion time specified in the Contract Documents.
- C. All other provisions of Contract Documents remain unchanged.

III. REASON FOR CHANGE

This change is necessary for removal of remaining contaminated soil.

IV. PAYMENT FOR CHANGE

- A. The contractor will be paid on a unit price basis for each cubic yard as included in bid items No. 4a, 4b, 5 and 7 of the contract documents.
- B. Additional costs associated with purchase of kiln dust used to reduce moisture content will be paid on actuals plus contract specified overhead. The quantity of kiln dust shall be determined from truck weight tickets.
- C. Additional disposal costs due to the addition of kiln dust to the wastes shall be paid on actual quantity of kiln dust added.
- D. Costs due to additional time associated with mixing the kiln dust with the wastes shall be recorded daily and paid on time and material basis as specified in the contract documents.
- E. No additional increases in site preparation, site services, health-and-safety costs, or other costs will be accepted in relationship to this additional work.

Issued By:

David Pratt, P.E.
Project Engineer
NYSDEC
Division of Environmental Remediation
Region 8 - Avon

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
CONSTRUCTION SERVICES BUREAU
PROPOSED CHANGE ORDER NO. 4**

Date of Issue: October 16, 1997

Contract Number: D003671

Project Name: Remediation of the Former G.E. Hornell Site

NYSDEC Site Number: 8-51-009

Contractor: Philip Environmental Services Corp.
1820 Elmwood Avenue
Buffalo, New York 14207

I. GENERAL

- A. This Proposed Change Order (PCO) is issued to define the scope of work for test pits at the grease pit area at the above site.
- B. The general character of the work described by this PCO is similar to the originally specified work in the Contract Documents. All work necessary for the execution of this PCO shall be included whether specifically mentioned or not.

II. DESCRIPTION OF CHANGE

This change in the original contract is to perform all work necessary to excavate test pits in the grease pit area as specified below:

- A. Locations and limit of excavations will be defined by the NYSDEC Inspector. It is anticipated that there will be two test pits excavated.
- B. All work must be completed within the completion time specified in the Contract Documents.
- C. All other provisions of Contract Documents remain unchanged.

III. REASON FOR CHANGE

This change is necessary to aid in defining the extent of excavation required under PCO #3.

IV. PAYMENT FOR CHANGE

- A. The contractor will be paid on a time and material basis as per Article 10 of General Conditions of Contract. The actual time and materials spent on this activity must be agreed to with the NYSDEC Inspector and submitted at the end of each day.
- B. No additional increases in site preparation, site services, health-and-safety costs, or other costs will be accepted in relationship to this additional work.

Issued By:

David Pratt, P.E.
Project Engineer
NYSDEC
Division of Environmental Remediation
Region 8 - Avon

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
CONSTRUCTION SERVICES BUREAU
PROPOSED CHANGE ORDER NO. 5**

Date of Issue: November 10, 1997

Contract Number: D003671

Project Name: Remediation of the Former G.E. Hornell Site

NYSDEC Site Number: 8-51-009

Contractor: Philip Environmental Services Corp.
1820 Elmwood Avenue
Buffalo, New York 14207

I. GENERAL

- A. This Proposed Change Order (PCO) is issued to define the scope of work for soil borings near the grease pit area at the above site.
- B. The general character of the work described by this PCO is similar to the originally specified work in the Contract Documents. All work necessary for the execution of this PCO shall be included whether specifically mentioned or not.

II. DESCRIPTION OF CHANGE

This change in the original contract is to perform all work necessary to install soil borings and obtain soil samples near the grease pit area as specified below:

- A. Locations and depth of borings/samples will be defined by the NYSDEC Inspector. It is anticipated that there will be approximately thirty borings, each installed to a depth of 10 feet or groundwater, whichever comes first. It is anticipated there will be two samples submitted for analysis per boring, for a total of approximately sixty samples. All other samples not submitted for analysis will be retained and archived.
- B. Drill cuttings are to be placed back into the hole.
- C. All work must be completed within the completion time specified in the Contract Documents.
- D. All other provisions of Contract Documents remain unchanged.

III. REASON FOR CHANGE

This change is necessary to aid in defining the extent of contaminated soil near the grease pit area.

IV. PAYMENT FOR CHANGE

As discussed and agreed to by Contractor:

- A. The contractor will be paid \$400 for mobilization/demobilization costs, \$8 per foot drilled, \$5 per split spoon sample collected, \$20 per sample analyzed, time basis for one laborer and contract specified overhead. The actual laborer time spent on this activity must be agreed to with the NYSDEC Inspector and submitted at the end of each day. The contractor will also be paid for additional site services costs due to this activity.
- B. No additional increases in site preparation, health-and-safety costs, or other costs will be accepted in relationship to this additional work.

Issued By:

David Pratt, P.E.
Project Engineer
NYSDEC
Division of Environmental Remediation
Region 8 - Avon

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
CONSTRUCTION SERVICES BUREAU
PROPOSED CHANGE ORDER NO. 6**

Date of Issue: November 17, 1997

Contract Number: D003671

Project Name: Remediation of the Former G.E. Hornell Site

NYSDEC Site Number: 8-51-009

Contractor: Philip Environmental Services Corp.
1820 Elmwood Avenue
Buffalo, New York 14207

I. GENERAL

- A. This Proposed Change Order (PCO) is issued to define the scope of work for expanding the grease pit excavation at the above site.
- B. The general character of the work described by this PCO is similar to the originally specified work in the Contract Documents. All work necessary for the execution of this PCO shall be included whether specifically mentioned or not.

II. DESCRIPTION OF CHANGE

This change in the original contract is to perform all work necessary to expand excavation in the grease pit area as specified below:

- A. Extend grease pit excavation to remove contaminated soil from surface to 12 feet below grade or water table (whichever is first) - see enclosed sketch for delineation. 0'-4' to be excavated, transported and disposed of as non-hazardous. 4'-12' (or water table) to be excavated, transported and disposed of as hazardous.
- B. All work must be completed within the completion time specified in the Contract Documents.
- C. All other provisions of Contract Documents remain unchanged.

III. REASON FOR CHANGE

This change is necessary for removal of remaining contaminated soil.

IV. PAYMENT FOR CHANGE

- A. The contractor will be paid on a unit price basis for each cubic yard as included in bid items No. 4a, 4b, 5 and 7 of the contract documents.
- B. Additional costs associated with purchase of portland cement used to reduce moisture content will be paid on actuals plus contract specified overhead.
- C. Additional disposal costs due to the addition of portland cement to the wastes shall be paid on actual quantity of portland cement added.
- D. Costs due to additional time associated with mixing the portland cement with the wastes shall be recorded daily and paid on time and material basis as specified in the contract documents.
- E. No additional increases in site preparation, health-and-safety costs, or other costs will be accepted in relationship to this additional work.

Issued By:

David Pratt, P.E.
Project Engineer
NYSDEC
Division of Environmental Remediation
Region 8 - Avon

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
CONSTRUCTION SERVICES BUREAU
PROPOSED CHANGE ORDER NO. 7**

Date of Issue: November 25, 1997

Contract Number: D003671

Project Name: Remediation of the Former G.E. Hornell Site

NYSDEC Site Number: 8-51-009

Contractor: Philip Environmental Services Corp.
1820 Elmwood Avenue
Buffalo, New York 14207

I. GENERAL

- A. This Proposed Change Order (PCO) is issued to define the scope of work for cold patch asphalt of the road area impacted by the grease pit excavation.
- B. The general character of the work described by this PCO is similar to the originally specified work in the Contract Documents. All work necessary for the execution of this PCO shall be included whether specifically mentioned or not.

II. DESCRIPTION OF CHANGE

This change in the original contract is to perform all work necessary to repair the road area impacted by the grease pit excavation as specified below:

- A. The top four inches are to be filled with compacted cold mix asphalt conforming to NYDOT specification section 405 type II..
- B. All work must be completed within the completion time specified in the Contract Documents.
- C. All other provisions of Contract Documents remain unchanged.

III. REASON FOR CHANGE

This change is necessary for repair of the road acceptable to the City of Hornell (see attached).

IV. PAYMENT FOR CHANGE

- A. The contractor will submit a proposal by Wednesday, December 3, 1997.
- B. No additional increases in site preparation, health-and-safety costs, or other costs will be accepted in relationship to this additional work.

Issued By: \

David Pratt, P.E.

Project Engineer

NYSDEC

Division of Environmental Remediation

Region 8 - Avon

Appendix E

New York State Department of Environmental Conservation

Region 8 - Division of Environmental Remediation

6274 East Avon-Lima Road, Avon, New York 14414-9519

Telephone: (716) 226-2466, Fax: (716) 226-2909



John P. Cahill
Commissioner
John T. Hicks
Regional Director

SUBMITTAL LOG

To: G.E. Hornell File
From: David Pratt, P.E. - DER, Region 8
Subject: G.E. Hornell #851009
Hornell (C), Steuben (C)

Submittal Log - G.E. Hornell

Content

Received by NYSDEC

Status

- #1 - Subcontracting Plan	9/3/97	Approved - 9/16/97
- #2 - Resumes	9/4/97	Approved - 9/24/97
- #3 - Weather Station	9/3/97	Approved - 9/16/97
- #4 - Initial Topographic Map	9/5/97	Approved - 9/16/97
- #5 - Traffic Control Plan	9/5/97	Approved - 9/24/97
- #5a -	9/15/97	Approved - 9/24/97
- #6 - Revised Emergency Notification Table	9/5/97	Approved - 9/16/97
- #7 - Subcontracting Plan Amendment	9/6/97	Approved w/Note - 9/16/97
- #8 - Backfill Supplier	9/11/97	Approved w/Note - 9/16/97
- #9 - Paving	9/11/97	Being addressed as PCO #2
- #10 -Resume	9/11/97	Approved - 9/24/97
- #11 - Off-Site Transportation	9/11/97	Approved - 9/16/97
- #11a -	9/19/97	Approved - 9/19/97
- #12 - Project Schedule	9/16/97	Approved - 9/16/97
- #13 - Subcontracting Plan Amendment	9/12/97	Approved w/Note - 9/22/97
- (#13 - additional approval was required)	"	Approval - 10/9/97
- #13a -	9/16/97	Approved - 9/24/97
- #13b -	---	Rescinded
- #14 - Security	9/16/97	Approved - 9/16/97
- #15 - Water/Waste Water	9/16/97	Approved w/Note - 9/16/97
- #16 - Decon Pad Design	9/16/97	Resubmit w/Revisions - 9/16/97
- #16a - re-submittal	9/23/97	Approved w/Note - 10/8/97
- #17 - Dust Control & Road Maintenance	9/16/97	Approved - 10/2/97
- #18 - Haul Route	9/15/97	Approved - 10/2/97
- #19 - Erosion Control & Water Diversion	9/16/97	Approved - 10/2/97
- #20 - Soil Proctors and Analysis of backfill	9/20/97	Approved - 10/10/97
- #21 - Compaction/Work Space/Sloping Proced.	10/2/97	Approved w/Note - 10/6/97
- #21a - Revised Sloping Procedures	10/8/97	Approved w/Note - 10/8/97
- #22 - Weight Tickets/Waste Manifests - Resident	10/3/97	Information only
- #23 - Seed Mix Certification	10/6/97	Approved - 10/9/97
- #24 - Topo Map - Tank Area after berm removal	10/6/97	Information only
- #25 - Weight Tickets/Waste Manifests - Grs. Pit	10/9/97	Information only

Content

Received by NYSDEC

Status

- #26 - Sod	10/10/97	Being addressed as PCO #1
- #27 - Non - Hazardous Weight tickets	10/14/97	Information only
- #27A - Grease Pit Haz Soil Weight Tickets	10/14/97	Information only
- #28 - Drum Quantities	10/14/97	Information only
- #29 - Air Monitoring Logs & Results	10/14/97	Information only
- #30 - Lab Results - Verification Samples	10/14/97	Information only
- #31 - Security Logs and Pictures	10/29/97	Information only
- #32 - Paving	11/14/97	Information only
- #33 - Boring Submittal - Price Quotes	11/10/97	Information only