The electronic version of this file/report should have the file name:

Type of document.Spill Number.Year-Month.File Year-Year or Report name.pdf

letter.____.___.<u>File spillfile</u>.pdf

report. NW 915053 1994 - 12-01. CONSTRUCTION .pdf
DOCUMENTATION PRPORT

Project Site numbers will be proceeded by the following:

Municipal Brownfields - b

Superfund - hw

Spills - sp

ERP - e

VCP - v

BCP - c

non-releasable - put .nf.pdf

Example: letter.sp9875693.1998-01.Filespillfile.nf.pdf



Œ



CONSTRUCTION DOCUMENTATION REPORT INTERIM REMEDIAL MEASURE STRIPPIT, INC. AKRON, NEW YORK

Prepared By:

Day Engineering, P.C.

2144 Brighton-Henrietta Town Line Road

Rochester, New York 14623

Project #:

94-2430R

Date:

December, 1994

TABLE OF CONTENTS

1.0	INTRODUCTION 1				
	1.1	Background	1		
	1.2	IRM Design Rationale	3		
	1.3	IRM Construction Organization	4		
	1.4	IRM Construction Submittals	5		
2.0	IRM	CONSTRUCTION PROCESS	6		
	2.1	Site Preparation	6		
	2.2	Subgrade Preparation	6		
	2.3	Select Fill Placement	8		
	2.4	Geomembrane Placement 9			
	2.5	Barrier Protection Layer 9	9		
	2.6	Topsoil			
	2.7	Runoff Controls/Drainage			
	2.8	Site Clean-Up/Demobilization			
	2.9	Construction Modifications			
3.0	CON	STRUCTION DOCUMENTATION	3		
	3.1	Construction Meetings	3		
	3.2	Construction Progress Reports	3		
	3.3	Air Monitoring	3		
	3.4	Geomembrane Placement and Testing	3		
	3.5	Compaction and In-Place Density Testing	4		
	3.6	As-Built Conditions	5		
4 N	STA'	TEMENT OF COMPLIANCE	6		

LIST OF FIGURES

Figure 1: Project Locus

Figure 2: Site Location Map

Figure 3: Buried Drum Location Sketch

Figure 4: Petroleum-Contaminated Soil Location

Figure 5: Geomembrane Configuration Along Railroad Right-of-Way

Figure 6: Geomembrane Panel Layout and Destructive Seam Test Locations

Figure 7: In-Place Soil Density Test Locations

LIST OF APPENDICES

1 1	August 2, 1994 Letter to NYSDEC Re: Workplan Modifications Pre-Construction Meeting Minutes and Weekly Construction Meeting Minutes
Appendix C :	Generator Waste Characterization Report: Buried Drums
Appendix D :	Soil Test Results
Appendix E :	Geomembrane Specifications/Certification and Installation Test Results
Appendix F :	Petroleum-Contaminated Soil Evaluation and Testing
Appendix G :	Daily Field Reports
Appendix H :	Field Density Test Results
Appendix I :	Seeding Schedule and Documentation
Appendix J :	September 14, 1994: Sediment Sampling

1.0 INTRODUCTION

This document presents a summary of the Interim Remedial Measure (IRM) construction performed to close a former disposal area at the Strippit, Inc. facility located at 12975 Clarence Center Road in Akron, New York (see Figure 1, Project Locus). Closure of the disposal area was done in general accordance with the procedures outlined in an October 1993 IRM workplan (Reference 1) prepared by Day Engineering, P.C. (DAY) and approved by the New York State Department of Environmental Conservation (NYSDEC). The IRM was implemented in accordance with the requirements of a NYSDEC "Order on Consent, Index #B9-398-92-03" (Reference 2).

1.1 Background

The approximately 2.3-acre former disposal area is located in the southwest corner of the Strippit, Inc. property (see Figure 2, Site Location Map). Available historic information indicates that this disposal area was used from approximately 1940 to 1975 to dispose of waste materials generated at the Strippit, Inc. facility or its predecessors. In 1979, materials generated during a building expansion (e.g., native soils, building debris, etc.) were placed in the disposal area creating the grades that existed at the time that the IRM was initiated.

Prior to 1956, the Strippit, Inc. facility (including the disposal area) was owned and operated by Buffalo Arms Corporation. Since that date, Strippit, Inc. and its corporate predecessors have owned the site.

A review of historical records and interviews with past and current employees were conducted by Strippit, Inc. to assess the specific types and amounts of materials placed in the disposal area. The results of this evaluation are included in a July 1993 report by DAY (Reference 3). As indicated, it appears that from 1956 to 1975 heat treat sludge was disposed of in the disposal area with volumes equalling three tons/year (12 drums @ 500 pounds/drum), consistent with the manufacturing process in existence at the time. Chemical analysis reports of the sludge samples indicate contents of sodium chloride, barium chloride, potassium nitrate, sodium nitrate, sodium nitrate compounds and metal scale. The sludge was apparently taken to the disposal area and disposed of in an open pit located near the western boundary.

Statements from interviews indicate that during the 1956-1970 time period, paint thinner was poured onto trash for use as a fire starter. The approximate location of this burning was northwest of a former railroad spur within the disposal site. Aerial photographs from the 1960s time period seem to confirm this location. There is no indication that any thinner was ever put into the landfill in drums or poured onto the ground as a means of disposal.

Available information indicates that an estimated 20,000 gallons/year of water-soluble coolants (e.g., Norton 203 grinding soil and trimsoil) were apparently disposed of at the disposal area by discharging to the ground surface near the former railroad spur.

The disposal of cutting oils is somewhat unclear because conflicting information indicates that cutting oils were burned along with trash at the site, while eyewitness interviews indicate that waste oil was taken off site since 1956. It seems most likely that the routine disposal method for cutting oils was removal off site by a used oil hauler. However, some oil-containing filters and other refuse could have been disposed of within the disposal area.

According to a report by Engineering-Science, Inc. (Reference 4), Buffalo Arms Corporation manufactured machine guns for the U.S. government. The disposal area was reportedly used by Buffalo Arms Corporation to discard spent cartridges, scrap lead and steel from manufacturing processes.

To date, various studies have been completed to characterize conditions at and around the former disposal area. These include Phase I and Phase II studies summarized in the March 1991 report by Engineering-Science, Inc. (Reference 4) and supplemental studies by DAY in the July 1993 report (Reference 3). These studies determined that the fill within the disposal area consists of a heterogeneous mixture of clayey silts, sand, gravel, cobbles, isolated pockets of grinding fines, metal pieces, slag, wood debris, brick fragments, concrete fragments, rusted and broken 55-gallon drums and electrical wiring. Underlying the fill material, the native soils consist of lacustrine silts and sands with varying amounts of gravel and clay. The uppermost water bearing zone was encountered at a depth of 50 to 55 feet beneath the fill. Based upon measurements made in monitoring wells sealed within this zone, groundwater flow is from the south to the northwest.

Observations made during the previous studies indicate that the disposal area is generally bound by the asphalt drive and parking lot for the Strippit, Inc. facility to the north, the property line to the east, a former railroad right-of-way to the south and a property line and agricultural lands, owned by others, to the west. With the exception of some fill that appeared to extend approximately 20 feet beyond the western property line, the fill materials appeared to be entirely on property owned by Strippit, Inc.. Based upon the previous studies, it also appears that the fill was placed on the original ground surface without excavating native soils. The resulting fill configuration, prior to IRM closure, was a northerly sloping area having relatively steep slopes along the northern and western sides.

Analytical testing performed during the previous studies measured detectable concentrations of volatile and semi-volatile organic (base/neutrals) compounds and metals in soil and surface water/sediment samples from the site. Several of the metals were measured at elevated concentrations (e.g., aluminum, barium, iron and zine). Based upon screening with a photoionization detector (PID) during a test pit excavation study by DAY (Reference 3) slightly elevated PID readings were obtained within the native soils in an approximate 50-foot by 50-foot area adjacent to the southern and western property lines. Subsequent analytical testing of a soil sample from this area indicated a tetrachlorethene concentration of 360 parts per billion (ppb). No source of this contamination (e.g., leaking drums) was definitively established.

Groundwater samples were obtained from on-site monitoring wells (GW-1 through GW-5) on two occasions (June 1990 and February 1993). As presented in the previous reports (see Reference 3 and 4), the groundwater does not appear to have been impacted by contaminants within the disposal area. This judgment is based upon the general absence of contaminants identified within the disposal area in downgradient monitoring wells.

An explosive gas survey consisting of eighteen (18) monitoring points around and within the fill was done on August 19, 1993 by DAY. Two of the 18 points exhibited readings of 0.2 and 2.0 percent of the Lower Explosive Limit (LEL). No measurements were obtained at the remaining 16 points. Based on this study, it was determined that decomposition gases were not being generated at the disposal area. As such, the subsequent IRM design did not include a gas collection system.

In conjunction with the explosive gas survey, a reconnaissance was conducted to observe the disposal area for the presence of leachate outbreaks. No such outbreaks were encountered and as such, leachate collection was not included in the subsequent IRM design.

1.2 IRM Design Rationale

In accordance with the NYSDEC "Order of Consent, Index #B9-398-92-03" (Reference 2) and as outlined in the IRM workplan (Reference 1), an IRM was implemented for the disposal area. Essentially, this IRM consisted of the placement of a cap over the disposal area designed to isolate waste materials from infiltrating precipitation. The cap was graded to promote drainage into a surrounding trench which directed surface water away from the disposal area. Generally, the cap design was consistent with the criterial requirements contained in 6NYCRR Part 360-2.15: Landfill Closure and Post-Closure Criteria for Solid Waste Management Facilities" (effective December 31, 1988; revised May 28, 1992).

The design of the cover system for the IRM at the Strippit, Inc. site included the initial preparation of the site. This involved elements such as; clearing and grubbing, and regrading of fill materials to establish suitable grades for drainage and slope stability, and to collect fill materials that were apparently placed on adjacent property to the west. Following site preparation, a cover system that included the following components was installed on the prepared sub-grade.

- Six (6) additional inches of select fill, which according to the requirements of the IRM Workplan (Reference 1), was comprised of a mixture of "clay, silt and sand free form debris, organic and frozen materials, with no material greater than five millimeters (5 mm) in size"
- A high density polyethylene (HDPE) geomembrane with a thickness of 40-mil
- Six (6) additional inches of select fill

- Eighteen (18) inches of barrier protection fill, which according to the requirements of the IRM Workplan (Reference 1), was comprised of "clay loam, sand, gravel and similar material which shall be free from debris, organic and frozen materials, and may contain some stones, pebbles lumps and rock fragments up to seventy-five millimeters (75 mm) in greatest dimension"
- Six (6) inches of topsoil, which according to the requirements of the IRM Workplan (Reference 1), was comprised of material "free from refuse, and any material toxic to plant growth, subsoil, woody vegetation, stumps, roots, brush, stones, clay lumps and similar objects larger than two inches in dimension". Additionally the topsoil's pH was between 5.5 and 7.6 and it had on organic content between 2% and 20%. Following placement of the topsoil it was hydroseeded with a mixture of fertilizer, mulch, perennial grasses and crown vetch.

The design criteria required that soil materials within the cap system be placed in maximum six (6) inch compacted lifts and that various in-situ and laboratory tests be done on cap materials (soil and geomembrane). The cover system for the disposal area was designed to promote drainage off the completed cap to a perimeter drainage system that transmitted water away from the closed disposal area.

To assure the proper function of the IRM, post-closure monitoring and maintenance is required. A post-closure monitoring and maintenance plan for the site was prepared by DAY and submitted to NYSDEC for review and comment (Reference 5). Generally, this includes the collection and analysis of groundwater samples from existing monitoring wells (GW-1 through GW-5) on a regular basis and the monitoring of the cap's integrity. In the event this monitoring determines a problem, subsequent maintenance/remediation will be required to correct the identified problem.

1.3 IRM Construction Organization

Strippit, Inc. retained Day Engineering, P.C. (DAY) Rochester, New York to design the IRM closure and oversee its construction. Strippit, Inc. retained Haseley Trucking, Co., Inc. (Haseley), Niagara Falls, New York as the general contractor for the project. Ancillary services were provided by Malcolm Pirnie, Inc., Buffalo, New York (soils and geomembrane testing); SJB Services, Inc., Buffalo, New York (in-place density and soils testing); Environmental Security Services, Inc., Wexford, Pennsylvania (geomembrane installation and testing); Wolf's Nursery, Lockport, New York (hydro-seeding); Field Service, Inc., West Seneca, New York (gas well retrofitting); and Matthew F. Wilson, North Tonawanda, New York (surveying).

1.4 IRM Construction Submittals

Prior to and during the implementation of IRM construction various submittals were required. The documents which were submitted under separate cover include:

- a construction health and safety plan and community or monitoring plan (Reference 6);
- a construction quality control/quality assurance (QA/QC) plan (Reference 7); and
- a post-closure monitoring and maintenance plan (Reference 5).

2.0 IRM CONSTRUCTION PROCESS

IRM construction was performed in accordance to the plans and specifications included in the IRM workplan (Reference 1) as modified by the QA/QC plan (Reference 6) and various field decisions (as documented in correspondence included in Appendix A and construction meeting minutes, Appendix B). An overview of the construction process is discussed in this section.

2.1 Site Preparation

This work included mobilization of manpower and equipment to the site beginning on July 11, 1994 and the completion of the following tasks.

- <u>Clearing and grubbing:</u> This work performed between July 13 and 16, 1994 included the removal of brush and smaller trees (maximum trunk diameter less than 12 inches) that covered approximately 1.5 acres of the disposal area prior to IRM construction. The cleared and grubbed material that could not be chipped was subsequently disposed off-site at a construction and demolition debris landfill by Haseley.
- Erosion Control, Cleaning of Existing Drainage Trench, Fence Removal and Miscellaneous Site Preparation: These activities were performed between July 14 and July 22, 1994.

The work included such items as the excavation of temporary drainage ditches around the periphery of the site and a siltation basin located northwest of the site. Haybales, temporary berms and silt fences were also installed at this time. The existing drainage trench along the western edge of the Strippit, Inc. parking lot was cleared of vegetation and accumulated sediments. These materials were placed on top of the disposal area and they were ultimately disposed beneath the completed cap. The chain-link fences along the northern edge and within the disposal area (including a fence around the existing gas well in the center of the disposal area) were removed. The fence and concrete anchors were ultimately disposed off-site.

• Existing Gas Well: In conjunction with other site preparation activities, Field Services, Inc. extended the existing gas well (see Figure 2) casing and temporarily capped the well. [Note: Subsequent to the placement of the bottom twelve (12) inches of barrier protection material, Field Services, Inc. reconnected the well, via a plastic pipe, to the Strippit, Inc. plant. Barrier protection material and topsoil was placed above the plastic pipe.]

2.2 Subgrade Preparation

This work commenced on July 25, 1994, following NYSDEC's approval of the site specific health and safety plan (Reference 6), and it was completed on August 14, 1994. Generally, this work included the regrading of the former disposal area to; 1) return waste materials encroaching on property to the west and (2) establish a minimum slope of about 4 percent and

maximum side slope grades of about 25 percent. During this work, construction operations were performed by individuals trained in OSHA regulations relating to work on an inactive hazardous waste site and specific provisions of the health and safety plan were followed. This included the use of personnel protective equipment and the implementation of a community air monitoring program to measure organic vapors and fugitive dust concentrations.

During subgrade preparation five (5) buried drums of various solid material were encountered. The approximate location of these drums is depicted on Figure 3 (Buried Drum Location Sketch). A general description of the material within these drums is presented below:

- D-1 Green granular material suspected to be a grinding sludge
- D-2 Green granular material suspected to be a grinding sludge
- D-3 White/tan material suspected to be a heat treating salt
- D-4 Petroleum-contaminated soil
- D-5 Petroleum-contaminated soil

Following discovery of the drums, the drum and adjacent spilled material were collected and placed in overpack drums. The suspected grinding sludge from D-1 and D-2 was placed in overpack drums designated OP#1 through OP#3. The suspected heat treating salt from D-3 was placed in OP#4 and the petroleum-contaminated soils in D-4 and D-5 was placed in an overpack drum designated OP#5. These overpack drums were then taken to a temporary staging area (i.e., a bermed area lined and covered with plastic sheeting) located northwest of the former disposal area. Waste Technology Services (WTS), Niagara Falls, New York was retained to characterized the contents of the drums and coordinate their disposal. The drums were removed from the Site on October 20, 1994 for disposal at Wayne Disposal, Belleville, Michigan. Copies of the generator waste characterization report for these materials are included in Appendix C.

Following preparation, the subgrade was proof-rolled by making several passes with a Bomag Model BW-213 D-2 smooth drum vibratory roller. A DAY representative monitored the proof-rolling and a soft/wet area was observed near the top of slope on the west side of the disposal area. Subsequently, a dozer was used to scarify this area and it was allowed to dry. Following drying, it was recompacted and proof-rolled. Observation of the subsequent proof-rolling indicated the area was sufficiently compacted. Observations made by DAY during the proof-rolling did not reveal other soft/wet areas requiring re-working. DAY also visually observed the surface of the subgrade to assure that it was generally smooth and uniform and that it did not contain sharp changes in elevation. Additionally, obstructions which could prove to be detrimental to the geomembrane (e.g., pieces of wood, tree roots, scrap metal, etc.) were removed from the subgrade surface for off-site disposal.

The elevation of the prepared subgrade was measured by a surveyor retained by Haseley (i.e., Matthew F. Wilson) at various locations throughout the subgrade. Copies of the surveyor's as-built drawings, showing the measured subgrade elevations, have been submitted under separate cover.

2.3 Select Fill Placement

Following subgrade preparation and proof-rolling, the bottom six (6) inches of the select fill was placed between, August 15 and August 25, 1995. [Note: The upper six (6) inches of select fill was placed after the geomembrane was installed (i.e., between September 1 and September 7, 1994.] A total of an estimated 1300 cubic yards (yd³) of select fill was placed within the cover system. A gradation curve for the material used as select fill is included in Appendix D.

The select fill was placed in approximate eight (8) inch loose lifts and graded/compacted to a thickness of six (6) inches. To achieve the required thickness, grade markers, set by the surveyor, were placed throughout the disposal area. A DAY representative was on-site throughout the select fill placement to observe the material as it was brought to the site for consistency with the specifications and to monitor the compaction process. On occasion, larger pieces of material and/or organic debris (e.g., roots) were observed. These materials were removed by hand as necessary as the select fill was graded. Also, on occasion the select fill was determined to be dry (i.e., either through elevated dust measurements or observation of the relative degree of compaction obtained). On those occasions, water was added to assist in the compaction process.

Following compaction, DAY observed proof-rolling of the select fill layers. Proof-rolling consisted of a minimum of three (3) passes with a BOMAG Model BW-213 D-2 smooth drum vibratory roller. Additionally, the select fill layer was observed as loaded dump trucks brought additional fill onto the cap. Isolated areas were identified as insufficiently compacted (i.e., typically along the northern slope and an area in the west central portion of the site). Generally these areas were soft due to rains that occurred during placement. These areas were scarified and allowed to dry. Thereafter they were re-compacted until proof-rolling indicated sufficient compaction.

In addition to the proof-rolling, a DAY representative observed the select fill for evidence of materials which could potentially damage the geomembrane (e.g., larger pieces of stone). If encountered such pieces were removed by hand. The grade of the select fill beneath the geomembrane was also observed and surveyed to assure that it did not contain abrupt changes in elevation which could be detrimental to the integrity of the geomembrane. Furthermore, the select fill was observed/surveyed to assure it was graded in accordance to design specifications to promote drainage. As-built survey maps of the select fill layers have been submitted under separate cover.

It is noted that the original plans included the field density testing of the select fill. However, it was mutually decided by DAY and NYSDEC that such testing was unnecessary since the intent of the select fill was primarily to protect the geomembrane from puncture and not to reduce infiltration or to support the cap. Therefore, this testing was deferred to the barrier protection layer (see Section 2.5).

2.4 Geomembrane Placement

A 40-mil thick geomembrane manufactured by National Seal Company was installed by Environmental Security Services, Inc. between August 25, 1994 and September 1, 1994. Specifications/certification documents for the geomembrane and applicable in-situ and laboratory test results for the seams are included in Appendix E. Additional discussion regarding the geomembrane and its placement/testing is included in Section 3.4.

During installation of the anchor trench along the western side of the site on August 29, 1994, petroleum-contaminated soil was encountered between an approximate depth of 2.5 and 5± feet below the ground surface. The approximate location of this material is depicted on Figure 4 (Petroleum-Contaminated Soil Location). To allow construction of the anchor trench in this area, petroleum-contaminated soil from within the trench was excavated until "clean" soil (i.e., based upon visual observation and measurement with a HNU Model 101 Photoionization Detector and a Century Systems Model 128 organic vapor analyzer Flame Ionization Detector) was encountered. The petroleum-contaminated soil was placed on plastic sheeting within a bermed temporary containment area. Additionally, samples of the petroleum-contaminated soil and a confirmatory sample from the invert (i.e., a "clean" sample) of the anchor trench were tested by ACTS Testing Laboratories, Inc., Buffalo, New York (ACTS). A discussion of the in-situ evaluation of the petroleum-contaminated soil and a copy analytical test reports, prepared by ACTS, are included in Appendix F.

Upon receipt of the analytical test results petroleum-contaminated soil west of the anchor trench was excavated and placed within the stockpile area. The resulting excavation was backfilled with the same material used for the barrier protection layer. An estimated 120 cubic yards of petroleum-contaminated material was stockpiled at the site. WTS was retained by Strippit, Inc. to dispose of this material at Modern Disposal, Inc. Lewiston, New York. This soil was removed from the site on October 19, 1994 (see documentation in Appendix F).

2.5 Barrier Protection Layer

An eighteen (18) inch thick layer of barrier protection material, consisting of about 5,900 yd³, was placed above the uppermost layer of select fill between September 3 and September 15, 1994. Two (2) gradation curves (i.e, one completed by Malcom Pirnie, Inc. at the start of the job and a second by SJB Services, Inc. collected at the approximate mid-point of barrier protection placement) and a moisture density curve for the barrier protection material are included in Appendix D. This material was placed and compacted to six (6) inch lifts. The in-place density of the compacted bottom six (6) inch lift of barrier protection material was tested using a nuclear density gage and these test results are included in Appendix H and discussed further in Section 3.5.

The uppermost twelve (12) inches of the barrier protection layer was compacted and proof-rolled via a BOMAG Model 213 D-2 smooth drum vibratory roller and loaded dump trucks. DAY observed this work and any areas deemed too wet and/or soft were reworked or replaced until the compaction effort was determined to be satisfactory. As discussed in the daily field

reports (Appendix G) the proof-rolling did not indicate areas requiring reworking. However, heavy rains on September 13 and 14, 1994 (i.e., during placement of the final lift of barrier protection material) caused some erosion and created wet areas within portions of the barrier protection material as it was placed. Therefore, some re-working to expedite drying (e.g., cutting open areas of the barrier protection to facilitate drying) and repair of the erosion areas was done. Following this work and recompaction of the soil, proof-rolling indicated satisfactory compactive effort.

2.6 Topsoil

A six (6) inch thick topsoil layer was placed above the barrier protection soil between September 15 and 21, 1994. Applicable test results for this topsoil are included in Appendices D and I. Hydroseeding of the site was performed on September 22, 1994 by representatives of Wolf's Nursery. Information regarding the seed mixture is included in Appendix I.

2.7 Runoff Controls/Drainage

In conjunction with the topsoil placement, a drainage trench was constructed around the periphery of the closed site. Essentially, this drainage trench was constructed in accordance with the requirements of the IRM Workplan by excavating soil to an approximate depth of one (1) foot and creating a bermed area on the outside of the trench. The periphery drainage trench was graded such that surface water flowed into an existing drainage trench along the western edge of the Strippit, Inc. parking lot. Ultimately, water within this trench discharges under Clarence Center Road and to Murder Creek which is about 0.75 miles away from the Strippit, Inc. facility.

The NYSDEC collected sediment samples from drainage trenches north of the disposal area. As shown on the sample location map included in Appendix J, two (2) samples were collected from the trench west of the Strippit, Inc. parking area (i.e., SED #1 and SED #2) and one (1) sample was collected from the apparent discharge location of this trench on the north side of Clarence Center Road (SED #3). These samples were analyzed by the NYSDEC for the metals barium, cadmium and lead via USEPA Method 3051 Microwave Digestions and Method 6010 - Inductivity Coupled Plasma Atomic Emission. A copy of the NYSDEC test results is included in Appendix J.

2.8 Site Clean-Up/Demobilization

Following removal of the petroleum-contaminated soil and the overpack drums, IRM construction activity was completed on November 8, 1994. Prior to this work, DAY representatives visited the site to observe conditions and to establish a "punch list" of items that Haseley had to correct/resolve. Items identified and completed during the November 8, 1994 work included:

grading, topsoil placement and seeding in the area of the former petroleum-contaminated soil stockpiles;

- cleaning of drainage control structures;
- repairing/re-seeding of erosion areas noted within the IRM Cap;
- removal of debris and general site clean-up;
- placement of siltation fences and erosion control structures; and
- completion of associated demobilization activities.

A copy of a field report describing the specific work completed is included in Appendix G.

2.9 Construction Modifications

Several modifications from the specifications presented in the IRM Workplan (Reference 1) were required to effectively implement the IRM. Some of these modifications were summarized in the August 2, 1994 letter to the NYSDEC (see Appendix A). Modifications not discussed in this letter were discussed in the weekly construction meeting minutes (Appendix B). Major modifications to the IRM Workplan are summarized in this section.

• An**ch**o**r** Trench

The original design required an anchor trench around the entire perimeter of the disposal area. However, along the southern side of the former disposal area (i.e., near the railroad right-of-way) access restrictions prevented installation of the anchor trench as depicted on the construction plans. Specifically construction of the anchor trench as depicted on the plans would have required the placement of soil beneath overhead Niagara Mohawk power lines to create the outside berm for the drainage trench. Since the clearance beneath the lines is currently at Niagara Mohawk's allowable limit, additional soil placement was not possible. Therefore, DAY developed three (3) alternative schemes for geomembrane construction in this area. NYSDEC reviewed these schemes and selected the alternative depicted on Figure 5, Geomembrane Configuration along Railroad Right-of-Way. This scheme required the geomembrane to be extended throughout the drainage trench without an anchor trench.

• Seed Mixture

Due primarily to the time of year, the seed schedule shown in the project specifications was modified to essentially eliminate annual grasses and to replace them with perennial grasses. The rationale for this change being that annual grasses would die out during initial frosts and their placement would not provide a long-term benefit. The seeding schedule used for this site included:

- 50 pounds of Crown vetch per acre; and
- 200 pounds per acre of:
 creeping red fescue 50%
 perennial rye grass 45%
 white clover 5%

The amounts of water, mulch and fertilizer used were comparable to the requirements in the IRM Workplan. It is expected that the seed mixture used will result in an 8 to 10 inch high growth of perennial grasses during the 1995 growing season. Beginning in late 1995 and ultimately by the 1996 growing season the crown vetch should predominate.

Compaction Testing

As discussed previously, the in-place density testing was performed on the bottom six (6) inch layer of the barrier protection layer rather then the bottom six (6) inch layer of the select fill, as outlined in the August 2, 1994 letter. The rationale for this change was discussed previously.

Based upon the use of a "finer" barrier protection material than that specified in the IRM Workplan the compaction testing method was altered. Specifically AASHTO T-99-90 Method B rather than Method C was used. While each method uses a similar compactive effort, the size of the mold and the blows per layer are modified to account for larger size particles in Method C.

Other variations or modifications which may have occurred are summarized in the weekly construction meeting minutes (Appendix B) and/or the daily field reports (Appendix G).

3.0 CONSTRUCTION DOCUMENTATION

This section presents documentation obtained during the construction process to indicate that the IRM was constructed as designed except as modified with concurrence with the NYSDEC; see Section 2.8.

3.1 Construction Meetings

A pre-construction meeting was held on June 17, 1994 to discuss the IRM construction process and schedule. This meeting was attended by representatives of Strippit, Inc., NYSDEC, DAY and Haseley. A copy of the minutes for this meeting is included in Appendix B. Following initial site preparation activities, a construction progress meeting was held on the Monday of each week. This meeting was typically attended by representatives of NYSDEC, DAY and Haseley. Copies of these meeting minutes are included in Appendix B.

3.2 Construction Progress Reports

Daily field summary reports prepared by DAY's site representative are included in Appendix G. These reports are brief summaries of the equipment and manpower on-site as well as an overview of the work completed each day. Additionally, a photographic record and a detailed account of field activities were maintained. This information has been retained in DAY's job files for this project.

3.3 Air Monitoring

As required by the health and safety plan, monitoring of the air quality was required throughout the subgrade preparation and placement of the bottom six (6) inch layer of select fill (i.e., until the entire site was covered with "clean" fill). This monitoring included regular monitoring with a PID (HNU Model PID 101) and a "real time" particulate dust meter (PPM, Inc. Model 1005 HAM). The results of this monitoring are summarized on site maps, depicting monitoring locations and test results. These maps are included with the appropriate daily field reports (Appendix G). As indicated, PID measurements above background levels were not measured. In the event of the elevated instantaneous dust measurements, Haseley was instructed to stop work in the area and wet down the area prior to commencing. This resulted in all the average dust levels being less than the allowable limit (i.e., 150 kg/m³ averaged over a 15 minute period).

3.4 Geomembrane Placement and Testing

The material specifications for the 40-mil HPDE geomembrane installed are included in Appendix E. A diagram showing the layout and designation of individual panels is included as Figure 6, Geomembrane Panel Layout and Destructive Seam Test Locations.

During geomembrane installation field seams were cleaned and free of moisture, dust, dirt, debris and foreign material prior to sealing. As shown on Figure 6, the seams were oriented

parallel to the line of maximum slope. Field seaming was not performed above 110°F, during precipitation, or when winds were in excess of 20 miles per hour. The geomembrane liner was continuously inspected for uniformity, damage and imperfections (e.g., tears, punctures and blisters). As documented in Appendix E and the daily field reports in Appendix G, imperfections and damaged areas were repaired and reinspected.

Tests performed on the seams during the installation of the geomembrane included a non-destructive air test (see test procedures included in Appendix E) and in-situ destructive tests. These test results, completed by Environmental Security Services, Inc. and summarized in Appendix E, indicate the seams were constructed within allowable tolerances. In addition to these tests, an 18 inch wide by 2 foot long sample was collected at minimum of every 500 lineal feet of seam length and tested by Malcolm Pirnie, Inc. Sample locations are depicted on Figure 6. This destructive testing was done via ASTM Method D413 (peel testing) and ASTM Method D3083 (shear testing). A copy of Malcolm Pirnie's report is included in Appendix E. As indicated, all destructive tests passed (i.e., failure was within the required tolerances).

A copy of a report prepared by Environmental Security Services, Inc., summarizing the geomembrane placement and test results is included in Appendix E.

3.5 Compaction and In-Place Density Testing

Malcom Pirnie, Inc and SJB Services, Inc. tested the barrier protection material to determine its grain size via ASTM Method C-136: Sieve Analysis of Fine and Coarse Aggregates. Upon determination that this material was suitable for use as a barrier protection material, SJB Services, Inc. tested it via AASHTO T-99-90 Method B: Moisture-Density Relations of Soils using a 5.5 lb. Rammer and a 12" Drop. Copies of these test results are included in Appendix D.

Following the determination of the maximum dry density and optimum moisture content, SJB Services, Inc. completed in-situ field density tests in accordance with AASHTO Standard T191. This testing was done with a Troxler nuclear moisture density gage in accordance to ASTM D2922-01. As required by the specifications, these tests were made at a frequency of nine (9) per acre throughout the compacted bottom six (6) inches of the barrier protection layer. The location of these tests and their designation are depicted on Figure 7, In-Place Soil Density Test Locations.

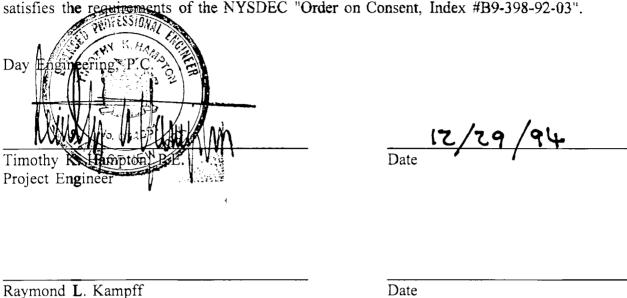
The results of the field density testing are included in Appendix H. As shown, this testing indicates that the barrier protection material was compacted to 95 percent or more of its maximum dry density as determined by the AASHTO T-99-90 Method B testing.

3.6 As-Built Conditions

Survey measurements were completed at various stages of the IRM construction process. These include prior to and following subgrade preparation, following placement of the bottom six (6) layer of select fill, at interim points during the placement of barrier protection soils and upon obtaining the final grades (including the surrounding drainage trench). This survey was completed by Matthew E. Wilson and copies of his drawings have been submitted under separate cover. As indicated by these drawings, fill thicknesses and configurations required by the IRM Workplan were achieved.

4.0 STATEMENT OF COMPLIANCE

Based upon the field observations and in-situ testing discussed herein, and to the best of our knowledge, the IRM construction at the Strippit, Inc. site was performed in accordance to the requirements of specifications presented in the IRM workplan as subsequently modified by discussions with the NYSDEC. As such, it is DAY's opinion that the IRM Construction satisfies the requirements of the NYSDEC "Order on Consent, Index #B9-398-92-03".



Raymond L. Kampff Project Manager

LIST OF REFERENCES

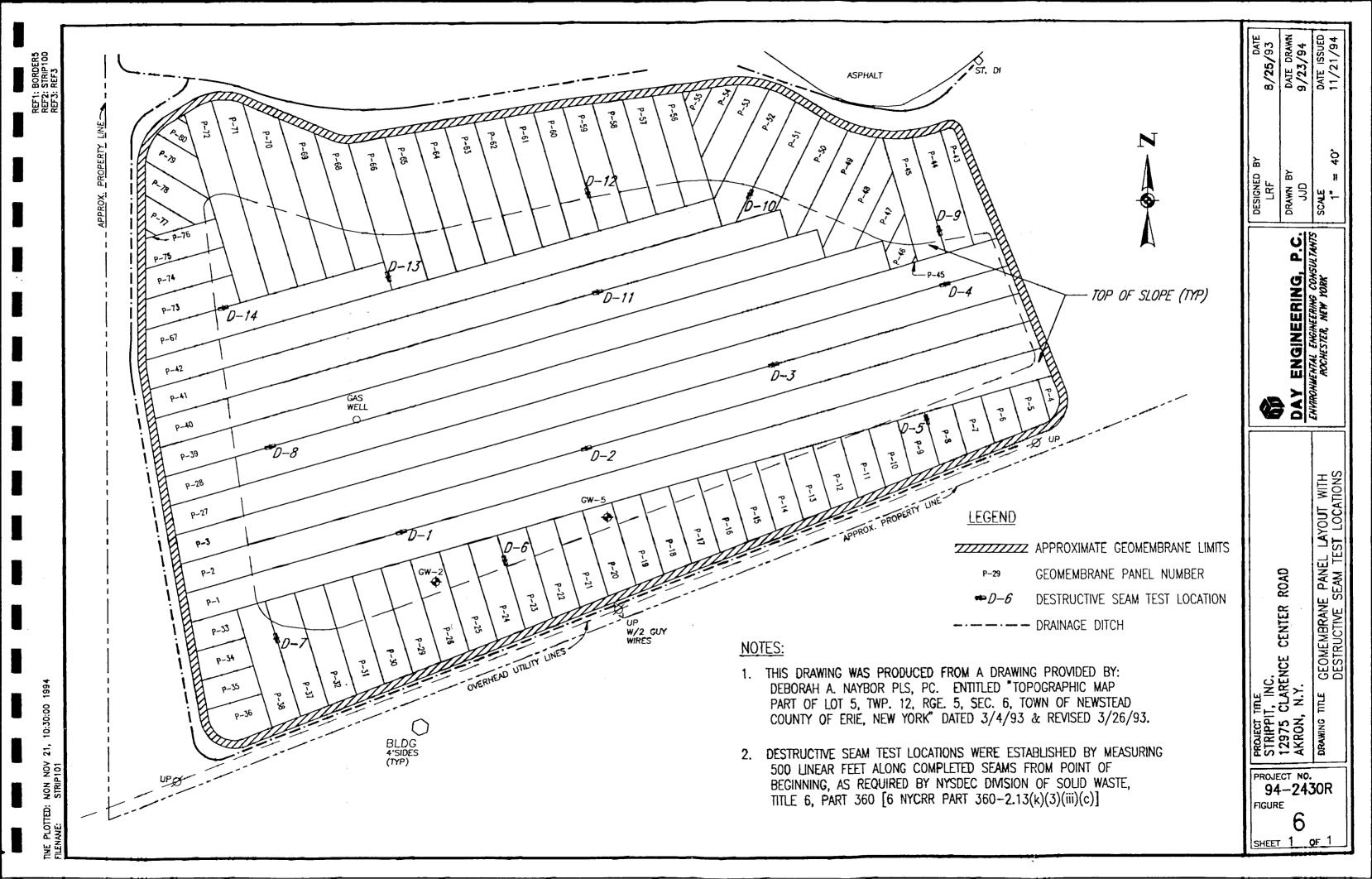
Reference 1:	"Interim Remedial Measure Workplan; Strippit, Inc.; Akron, New York;
	DEC Site No. 915053" October 1993, prepared by Day Engineering, P.C.

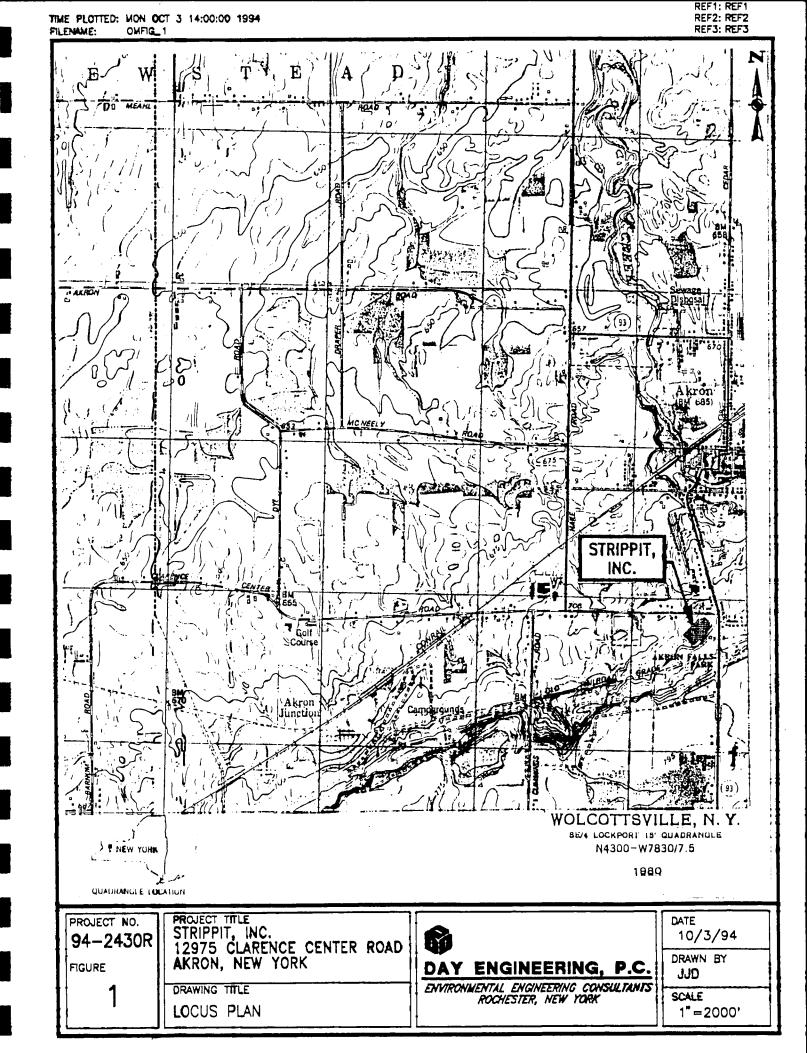
- Reference 2: State of New York: Department of Environmental Conservation "Order to Consent; Site #915053, Index #B9-398-92-03; Strippit, Inc.; Respondent" dated December 3, 1992.
- Reference 3: "Field Investigation Report; Strippit, Inc.; Akron, New York; DEC Site No. 915053" July 1993, prepared by Day Engineering, P.C.
- Reference 4: "Engineering Investigations at Inactive Hazardous Waste Sites; Phase II Investigations; Houdaille-Industries-Strippit Division; Village of Akron; Site No. 915053; Erie County" March 1991, prepared by Engineering-Science.
- Reference 5: "Post-Closure Monitoring and Maintenance Plan; Interim Remedial Measure; Strippit, Inc.; Akron, New York" Draft October 1994; prepared by Day Engineering, P.C.
- Reference 6: "Site Specific Health & Safety Plan; Strippit, Inc.; Akron, New York; DEC Site No. 91503" July 1994; prepared by Haseley Trucking Co., Inc.
- Reference 7: "Quality Assurance/Quality Control; Interim Remedial Measure; Strippit, Inc.; Akron, New York" August 1994; prepared by Day Engineering, P.C.

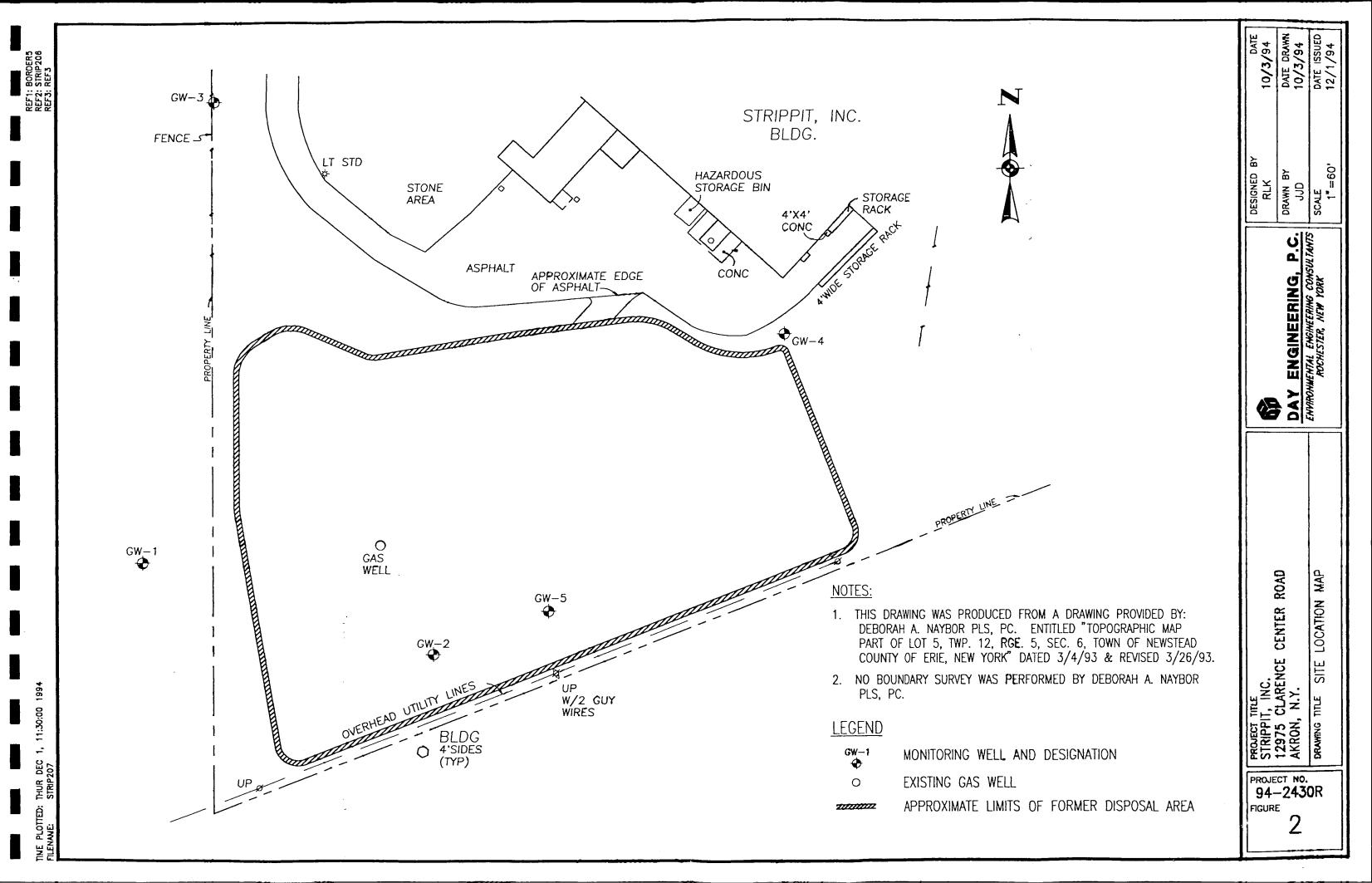
ENVIRONMENTAL SECURITY SERVICES, INC.

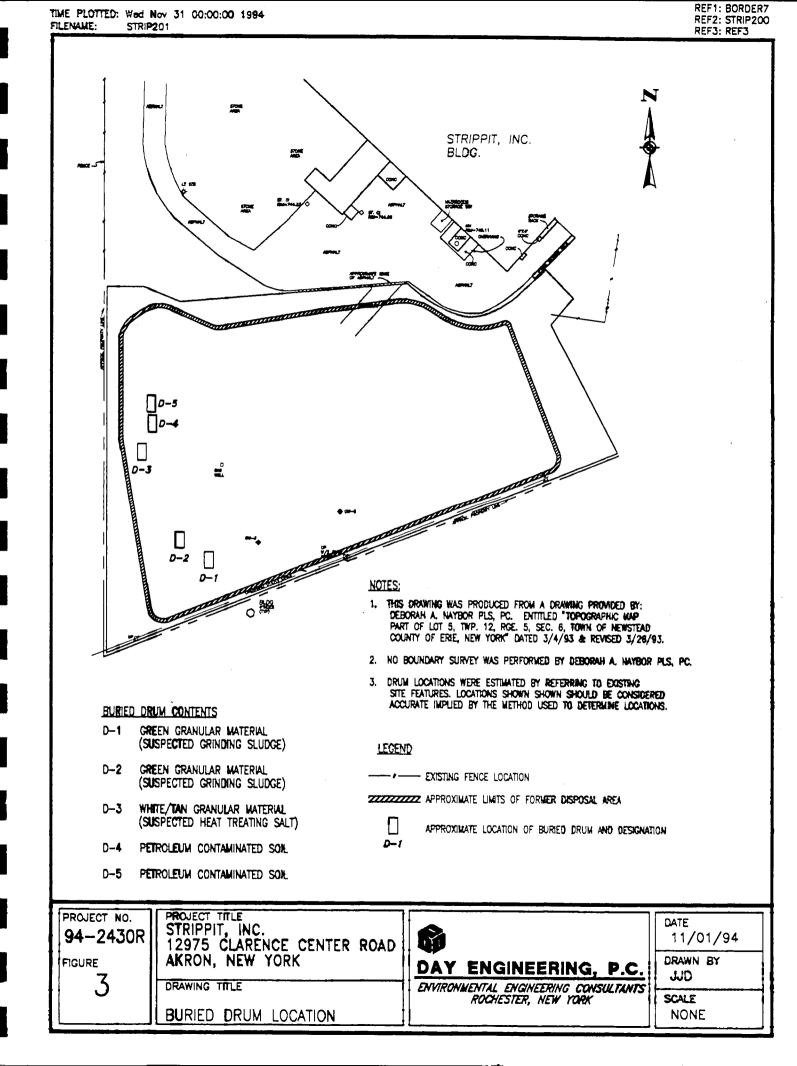
GEOMEMBRANE INSTALLATION SUMMARY REPORT

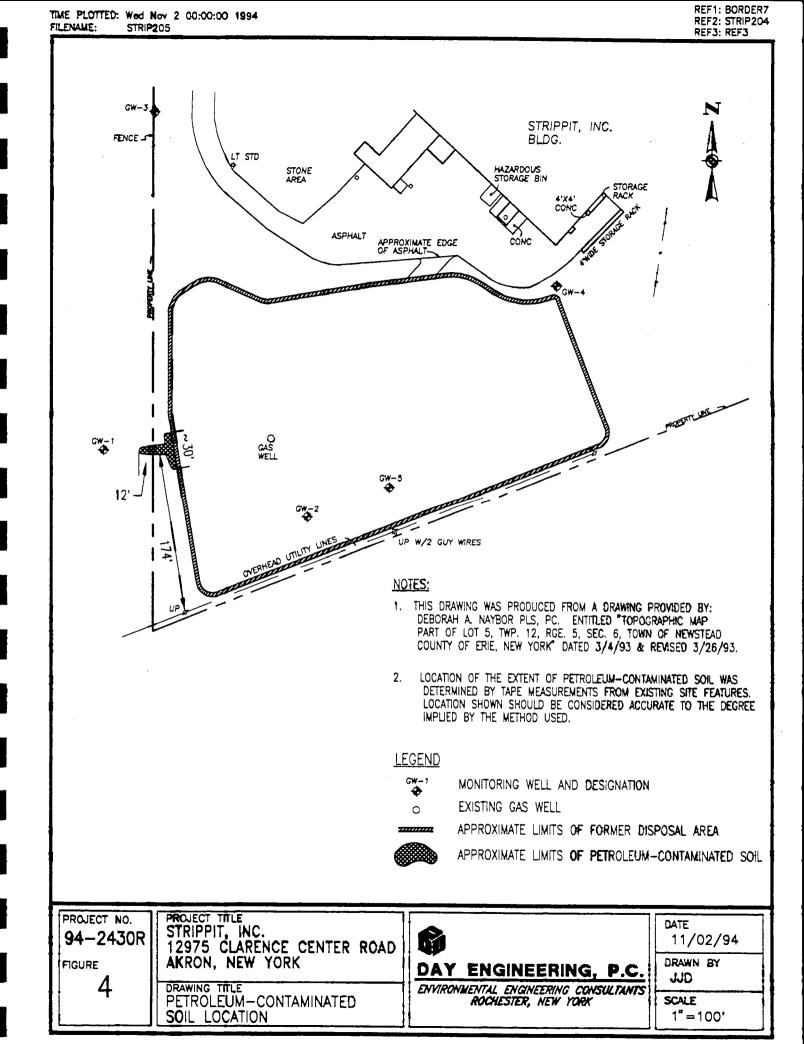
FIGURES

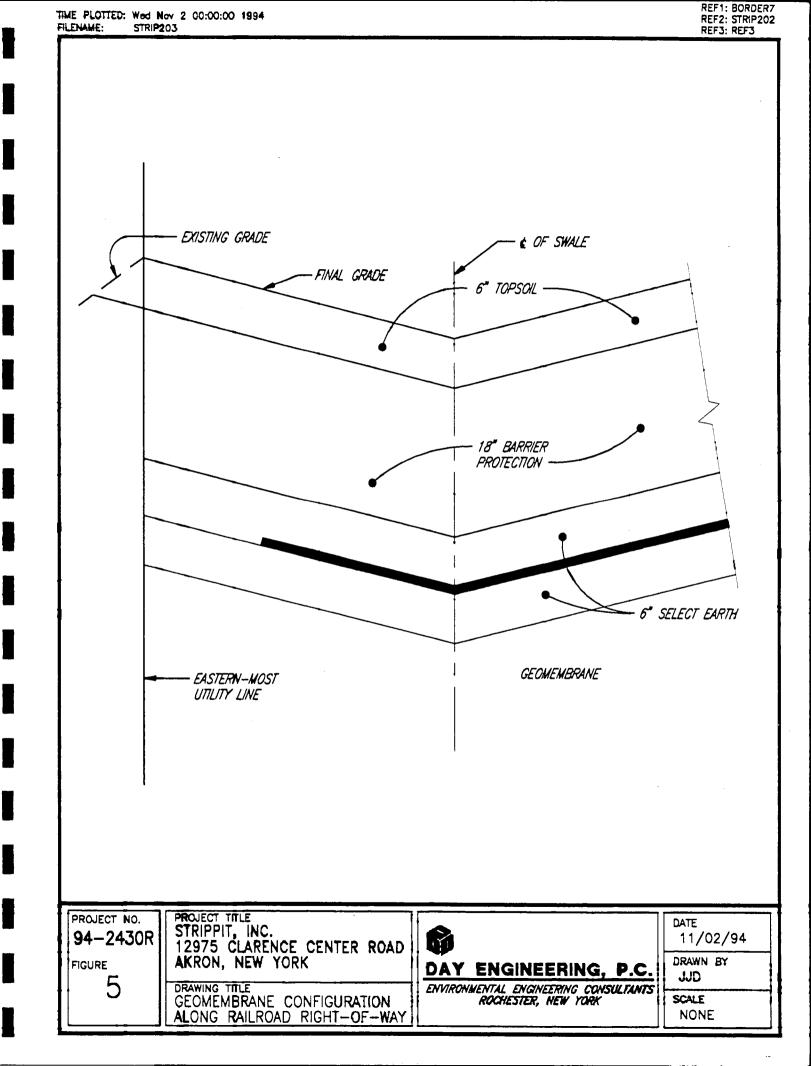


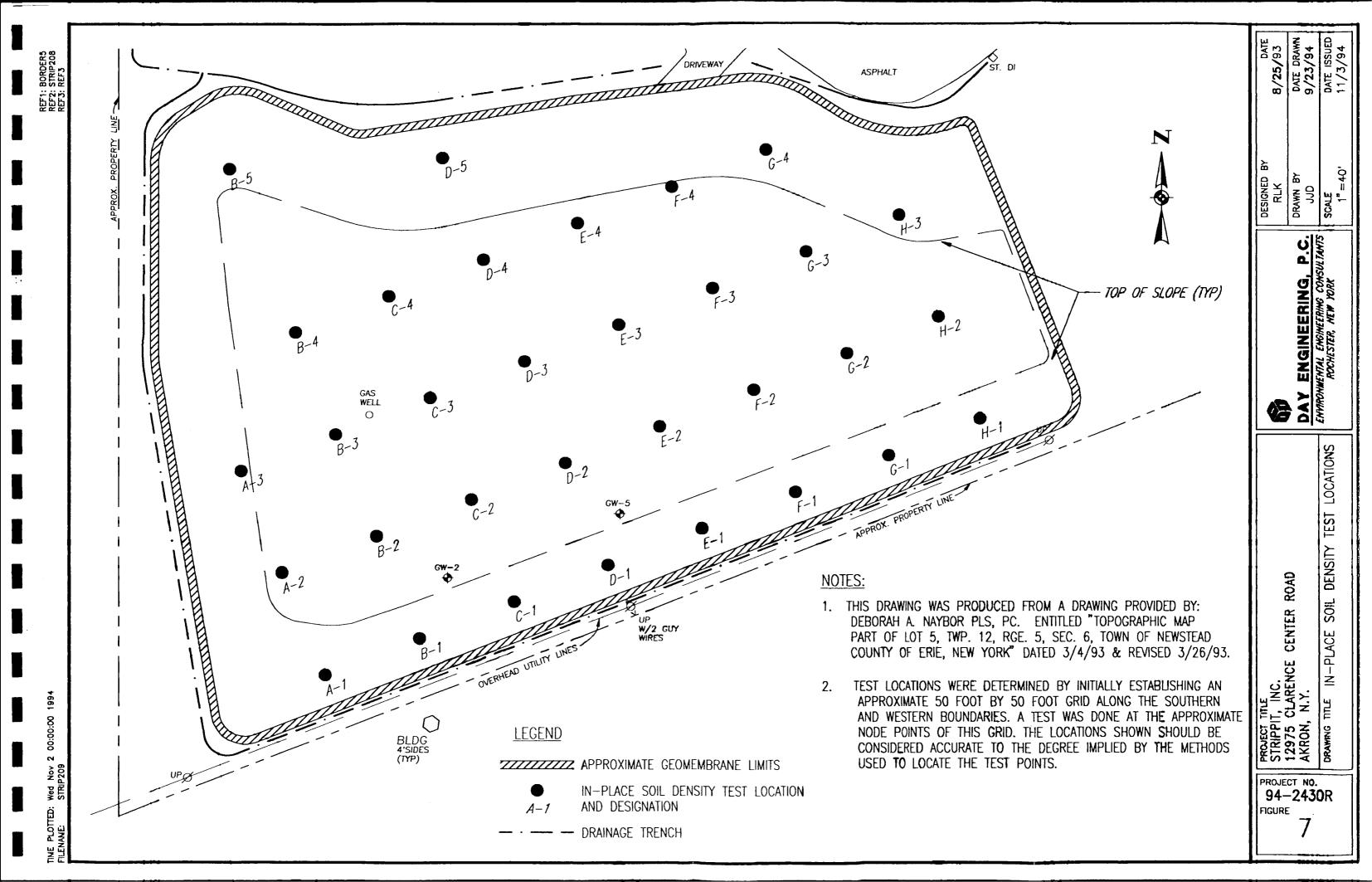












APPENDICES

APPENDIX A

August 2, 1994 Letter to NYSDEC Re: Work Plan Modifications



DAY ENGINEERING, P.C.

ENVIRONMENTAL ENGINEERING CONSULTANTS

August 2, 1994

Mr. Jaspal Walia, P.E.
New York State Department of
Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203-2999

Re:

Interim Remedial Measure (IRM) Work Plan

Strippit, Inc. Akron, New York

Dear Mr. Walia:

The purpose of this letter is to summarize modifications to the above-referenced IRM Work Plan and bidding process. The following modifications have been discussed and agreed upon by the New York State Department of Environmental Conservation (NYSDEC). As was previously discussed, instead of submitting written confirmation for each agreed upon modification, one letter summarizing the modifications would be submitted. Following are the previously agreed upon modifications to the IRM Work Plan and bidding process.

Bid Specifications

Day Engineering, P.C. (Day) initially proposed preparing formal Bid Specification packages for release to potential bidders. As was discussed with NYSDEC, Day requested which was subsequently agreed upon by the NYSDEC that the approved IRM Work Plan be submitted to the potential bidders as the bid documents.

Clearing and Grubbing

In the IRM Work Plan on Drawing C-1 under "General Notes", Item 10 states that "All trees, stumps, bush and cut limbs shall be removed and buried off-site".

This item was amended and agreed upon by the NYSDEC to reflect that brush, tree trunk and limbs will be chipped and incorporated/buried into the fill prior to establishing the subgrade. Small stumps will also be incorporated into the fill. Large stumps which could effect the integrity of the liner will be removed from the landfill area.

Drainage Ditch

Although the drainage ditch adjacent to the northwest property line was not specifically addressed in the IRM Work Plan, activities associated with the drainage ditch were discussed with and agreed upon by NYSDEC.

Mr. Jaspal Walia, P.E. August 2, 1994 Page 2

In order to promote drainage, the drainage ditch will be cleaned of vegetation and sediment. Material removed during the clean-up of the drainage ditch will be placed on the landfill and incorporated/buried into the fill prior to obtaining the subgrade elevation.

Field Density Testing

In the IRM Work Plan a Drawing C-1 under "Material Notes", Item 4 address compaction of select earth subgrade and barrier protective layer. Although not clearly stated Item 4 could be interpreted that field density tests will be performed on each six-inch lift associated with the select earth subgrade and barrier protective layer.

As discussed with and agreed upon by the NYSDEC, field density tests will be performed, at a minimum frequency of nine per acre, on the select earth subgrade to assure a competent layer for placement of the liner. Placement of the remaining six-inch lifts associated with the barrier protective layer will not be permitted until the fill material has been consolidated to the satisfaction of the engineer.

Subbase and Final Grade Contour Elevations

Quantity takeoff following submittal and approval of the IRM Work Plan indicated excess of soil/fill material altering the subbase contour elevations. This excess requires an adjustment to the subbase elevation of approximately two feet. Thus, increase in contour elevations will occur incorporated during construction still maintaining the required slopes. The revised contours will be shown on the as-built drawings submitted in the Certification Report.

Should you have any questions concerning the above modifications, please do not hesitate to contact this office.

Yours truly,

Richard L. Crouch

RLC/bb

cc: Mr. Robert Johnson, Strippit, Inc.

RC166 93-2166R

APPENDIX B

Pre-Construction Meeting Minutes and Weekly Construction Meeting Minutes



DAY ENGINEERING, P.C.

ENVIRONMENTAL ENGINEERING CONSULTANTS

August 2, 1994

Mr. Jaspal Walia, P.E. New York State Department of Environmental Conservation 270 Michigan Avenue Buffalo, New York 14203-2999

Re: Minutes of Preconstruction Meeting Strippit, Inc. Akron, New York

Dear Mr. Walia:

A preconstruction meeting associated with the approved Interim Remedial Measure for Strippit, Inc. (Strippit) Landfill was held on June 17, 1994, at 10:00 a.m. Personnel in attendance were:

- Lyle Emerson, Haseley Trucking Co., Inc. (Haseley)
- Nate Rowles, Haseley
- M.L. Doster, New York State Department of Environmental Conservation (NYSDEC)
- Jaspal S. Walia, NYSDEC
- **Ji**m Tuk, NYSDEC
- Robert Johnson, Strippit, Inc. (Strippit)
- Greg Selip, Strippit
- Tom Hoag, Strippit
- Rick Crouch, Day Engineering, P.C. (Day)

The items discussed were:

- 1) Sign in/out for personnel associated with landfill construction will be controlled at the trailer provided by Haseley.
- 2) The gas well and lighting on the landfill have been extended or removed.
- 3) NYSDEC requested advanced notification when liner testing is to be performed.
- 4) It was identified by Haseley that the source of the select fill was Pine Hill.
- 5) NYSDEC recommended that the Village of Akron, New York, Police Department be notified of the increase in truck traffic associated with the transport of fill material to the site.

Mr. Jaspal Walia, P.E. August 2, 1995 Page 2

- The issue of dust control was identified by the NYSDEC and Haseley responded that they will have a water truck on-site to address this issue.
- During the discussion, Day stated that a letter was being prepared for submittal to the NYSDEC discussing modifications to the approved IRM Work Plan which have been previously discussed and agreed upon by Mr. Jaspal Walia, NYSDEC.
- NYSDEC suggested a preconstruction groundwater monitoring well sampling event. In subsequent discussion between Day and NYSDEC it was agreed upon that due to the depth of the monitored water bearing zone below the site (i.e., approximately 40 feet) the water quality should not be affected due to construction activity, hence, preconstruction sampling of the ground water monitoring wells was not necessary.
- 9) A Health and Safety Plan is being prepared by Haseley for submission to the NYSDEC for their review prior to construction start-up.
- Mr. Marty Dozier, NYSDEC, asked about the Bid Specification Package. Day's representative noted that with concurrence from Mr. Jaspel Walia, NYSDEC, the IRM Work Plan was submitted to the bidders for the preparation of their bids.
- 11) NYSDEC requested a Job Performance Meeting to be held weekly and Day providing the minutes of the meeting to the NYSDEC. Bob Johnson also requested a copy of the weekly minutes.
- 12) Haseley noted that their work schedule would be 7:00 a.m. to 3:30 p.m., five days a week.
- 13) NYSDEC requested that the documents prepared during the investigative phases and the IRM design phase be submitted to the Village of Akron library and that the NYSDEC be copied on which documents were available in the library.
- 14) It was discussed that PPE would be placed in lined container and subsequently disposed of as a solid waste.
- The existing fence along the northern edge of the landfill and around the gas well would be removed and placed in a roll-off and removed from site as scrape metal.
- Day stated that the IRM Certification Report would be submitted to the NYSDEC within thirty days following completion of construction, excluding seeding. Once seeding was completed, an addendum to the Certification Report addressing seeding would be submitted.

Mr. Jaspal Walia, P.E.

August 2, 1995

Page 3

- 17) NYSDEC noted that they could review and comment on the Certification Report within thirty days following receipt.
- 18) The Post Closure Operation and Maintenance Plan would be prepared and submitted during construction of the IRM.
- 19) Perched water, if encountered, during excavations for the liner trench would be placed back on the landfill.
- 20) Water generated during steam cleaning would be placed on the landfill.
- 21) Strippit noted that an access agreement was in place for the property adjacent to and west of the landfill.
- 22) NYSDEC will provide Strippit with written notification to proceed with construction.
- 23) Strippit stated that payment of the NYSDEC's invoice has been previously submitted.
- During the meeting and the follow-up site visit, Day noted that the drainage ditch adjacent to the western property line would be cleaned out and that the sediment removed from the drainage ditch would be placed on the landfill.

The meeting and site visit concluded at approximately 12:30 p.m.

Should you have any questions and/or comments, please do not hesitate to contact this office.

Yours truly,

Richard L. Crouch

RLC/bb

cc: Robert Johnson, Strippit, Inc.

RC165 93-2166R

MEMO Job No. / RK116 Date: August 4, 1994

MEETING MINUTES

SUBJECT:

Strippit Landfill Closure

Site Meeting #1

MEETING

DATE:

August 1, 1994

TIME:

13:05 - 13:25

PLACE:

Field office Strippit site

ATTENDEES:

J. Walia - NYSDEC

J. Tuk - NYSDEC

R. Kampff - Day

J. Dorety - Day

I. Job Progress Since Last Meeting:

This was the first site meeting thus the following is a brief account of work completed to date.

Haseley Trucking Company, Inc. (Haseley) the contractor, mobilized to the site on July 11, 1994. Haseley's initial activities included site preparation (i.e., placement of an office trailer, development of equipment staging area, etc.). In conjunction with site preparation, an existing drainage trench, located along the western edge of Strippit's parking lot, was cleared of vegetation and debris. Additionally, a temporary sedimentation basin and connecting drainage way were constructed and silt fences/hay bails were placed.

Clearing and grubbing was completed between July 13 and 16, 1994. Trees/brush were chipped and stockpiled for future use. At this time, an existing chain link fence was removed from around the landfill.

In conjunction with site preparation, an existing electrical line and poles were removed from the site by the utility company. A gas well within the limits of the landfill was temporarily closed and its casing extended by Field Service, Inc. Following cap construction the well will be put back into service for use by Strippit.

Beginning on July 25, 1994, subgrade preparation was started. Generally this included the set up of a decontamination area and the completion of a cut and fill operation to obtain a desired subgrade contour. Side slopes were cut (i.e., primarily along the western and northern borders of the site) to remove fill that was apparently placed on the property to the west and to achieve an approximate grade of 1:4 (i.e., 25%). Material cut from the side slopes was pushed on top of the landfill to fill low areas.

The work completed to date including the approximate limits of cut and fill areas through August 1, 1994, are shown on the attached sketch.

II. Problems/Resolution

Problems identified during the work period and their resolution are discussed below.

1. Two buried drums were encountered in two separate locations during subgrade preparation (see attached sketch). The drum designated D-1 was encountered on July 25, 1994, and it consisted of a rusted drum shell broken in half and filled with a green granular material. [Note, based upon subsequent conversations with Strippit representatives, this material is potentially residue from metal grinding operations.] The second drum (designated D-2) was about 2/3 full of a white granular material. This drum was rusted and the end was broken off. Some of the white material was apparent outside the drum. Also approximately 25 feet to the south, a pile of bricks and brick fragments (similar to bricks used to line a wood stove) were encountered during subgrade preparation. [Note, based on subsequent discussions with Strippit representatives the white material is suspected to be a heat treatment salt and the bricks are from furnaces used to treat metals.]

Resolution: A sample of each drum was collected and the contents of each drum and the drum shells were placed into overpack drums. These overpack drums were then placed in a fenced drum storage area, constructed near the temporary sedimentation basin. Upon completion of the subgrade preparation the contents of the overpack drums will be characterized and removed from the site. The bricks encountered will be spread out in low areas to the landfill beneath the area to be capped.

2. During initial subgrade operations on July 25, 1994, a gas odor was observed n the vicinity of the gas well.

Resolution: Work in the immediate vicinity of the gas well was halted and Field Service, Inc. was contacted to investigate/repair the leak. Field Service, Inc. visited the site on July 26, 1994, and determined that the leak was the result of a malfunctioning valve. The valve was repaired and the gas odor was not perceptible.

3. Based on a construction schedule prepared by the contractor (Haseley Trucking Co., Inc.), work is approximately 1 to 1.5 weeks behind schedule.

Resolution: Haseley will be contacted to determine how they will adjust their work effort to get back on schedule. Also, a Haseley representative will be in attendance at subsequent site meetings to discuss scheduling and other construction related issues. [Note, additional equipment was brought to the site late on August 1, 1994. This equipment should help to speed up subgrade preparation.]

4. A strong septic type odor was observed emanating from the drainage trench along the western edge of Strippit's parking lot. Pipes along the western bank of this trench indicate the residence along Clarence Center Road may be discharging into this trench.

Resolution: J. Walia (NYSDEC) will discuss this matter with representatives of NYSDEC and advise Day on how to proceed with this issue.

5. NYSDEC has requested permission from Strippit to video tape the liner installation process. Presumably, this video tape will be used as an instructional video for NYSDEC and as a demonstration of landfill capping procedures at public meetings. Strippit has requested more information about this video tapping and its ultimate use.

Resolution: J. Walia will contact B. Johnson of Strippit to discuss this matter further.

III. Work Planned Through Next Meeting

Continuation of subgrade preparation.

somes & Campos

IV. Next Scheduled Meeting

August 8, 1994 (13:00 hours) in the field office at the Strippit site.

Respectfully submitted by: Day Engineering, P.C.

Raymond L. Kampff

cc: All Attendees

B. Johnson - Strippit

File

8/1/94 Site Conditions Strippit N Bldg. Temporory Siltotion Bosin Temporary Surface dean - Condint Stone Coursell Approx. Landfill Limits - Approx. Location proise Im the of decontamina area 20 Parales 5-0X "Cut"
A1005 · Gos WPIl Property Line - THEMANY Brm Site Skotch Strippit Closure - Not to Scale -

MEMO 93-1998R / RK119

MEETING MINUTES

SUBJECT:

Strippit Landfill Closure

Site Meeting #2

MEETING

DATE:

August 8, 1994

TIME:

13:15 - 14:10

PLACE:

Field office Strippit site

ATTENDEES:

J. Walia - NYSDEC

J. Tuk - NYSDEC

R. Kampff - Day

J. Dorety - Day

L. Emerson - Haseley

I. Job Progress Since Last Meeting:

Don Don't with

Grading and contouring at the existing landfill continued throughout the period. Primarily this included the excavation of fill material from the northern and western slopes and the placement of this material in the central portion of the site (see attached site sketch).

During excavation along the western slope three (3) additional 55-gallon drums containing waste material (D-3, D-4 and D-5, see attached sketch) were encountered. These drums contained the following materials.

Drum Designation	Description
D-3	Green granular material
D-4	Petroleum products and petroleum soaked
	soils
D-5	Petroleum products and petroleum soaked
	soils

Daganindian

The drum carcasses and contents, as well as adjacent visually contaminated soil, were collected and placed in overpack drums. These overpack drums were then moved to the temporary drum staging area. Testing/removal of the overpack drums will be done following subgrade preparation.

Work during the period also included moving of the decontamination area from its previous location in the central portion of the site to the location shown on the attached sketch.

II. Problems/Resolution

Problems identified during the work period and their resolution are discussed below.

1. Based upon the schedule provided by Haseley on July 15, 1994, grading and contouring of the existing landfill should have been completed by July 25, 1994. What is the current anticipated schedule for remaining work?

Resolution: L. Emerson indicated subgrade preparation should be complete by August 11 or 12, 1994. The duration of the remaining work tasks should be consistent with that outlined in the original schedule. L. Emerson will supply an updated construction schedule.

2. The project plans specify that the select material shall be compacted to a density of 95 percent of the maximum dry density as determined by AASHTO Standard T99, Method C. R. Kampff indicated that compaction of this material to a specified density may not be appropriate since this layer's primary function is to serve a protective layer for the geomembrane. Observation of the material as it is placed should be sufficient to assure that it does not include larger stones and that it is placed and compacted so as to preclude "soft" areas.

Resolution: It was agreed that field density testing of this layer was not necessary, and that such testing may be appropriate for other materials within the cover system.

3. The select material specified, and approved by NYSDEC, is described in the project plans as "...clay, silt, and sand which shall be free from debris, organic, and frozen materials, with no material greater than five millimeters (5 mm) in size". The material obtained by Haseley meets these specifications, but based on a gradation curve it is primarily a sand with about 86% greater than the No. 200 sieve. J. Walia suggested that the select material beneath the liner should be a clay based material so as to provide additional protection in the event of a breach in the geosynthetic liner.

Resolution: It was agreed that Haseley would initially attempt to locate a clay based material for use as the select fill. It was pointed out by R. Kampff that it was unlikely that a switch in material could be made at this time, and that the material provided by Haseley appears to satisfy the specifications. Alternatively, since the soil covering the existing landfill is a sandy silt with some intermixed clay, it was decided to evaluate this material to assess its extent and constancy. R. Kampff suggested that following grading and contouring operations, auger probes would be made at regularly spaced intervals. The purpose of these probes would be to evaluate the thickness of the soil fill. If it appears that sandy silt is present throughout the site and that it is at least one (1) foot thick, then in-place density tests/moisture content measurements would be made at a rate of nine (9) per acre. Additionally, a representative sample of this material would be tested for grain size and maximum dry density optimum moisture content. If the subgrade material did not appear adequate, and Haseley was unable to locate a clay-based material for the select fill, compaction testing of the bottom 6-inch layer of the barrier protection layer would be done. [Note: The intent of the testing of these layers is to provide a compacted layer with a lower permeability to serve to impede water infiltration into waste materials].

5. J. Tuk was concerned that all the silt fences and erosion control systems included in the specifications were not installed. Thus, in the event of heavy rains, erosion could be a problem.

Resolution: Since erosion has not yet been a problem, due primarily to the nature of the soils at the site, the silt fences and erosion control systems shown on the plans may not be necessary. Thus, it was decided that these systems would only be required if the site were to be left unattended for an extended period of time prior to liner placement or if it was deemed necessary based upon observation of a problem area.

6. Haseley has not yet submitted their proposed barrier protection material gradation.

<u>Resolution:</u> L. Emerson indicated that this information will be submitted in the near future.

7. The QA/QC plan has not yet been submitted.

Resolution: R. Kampff indicated he was awaiting some information from National Seal (which has now been submitted) and resolution of soil testing requirements before submitting this plan. It is expected the plan will be submitted the week of August 15, 1994.

III. Work Planned Through Next Meeting

Completion of grading and contouring of the existing landfill, ground surface elevation survey of the completed survey, observation/testing of the compacted subgrade and the start of select fill placement. Also monitoring wells within the landfill limits are scheduled to be extended.

IV. Next Meeting

August 15, 1994 (13:00 hours) in the field office at the Strippit site.

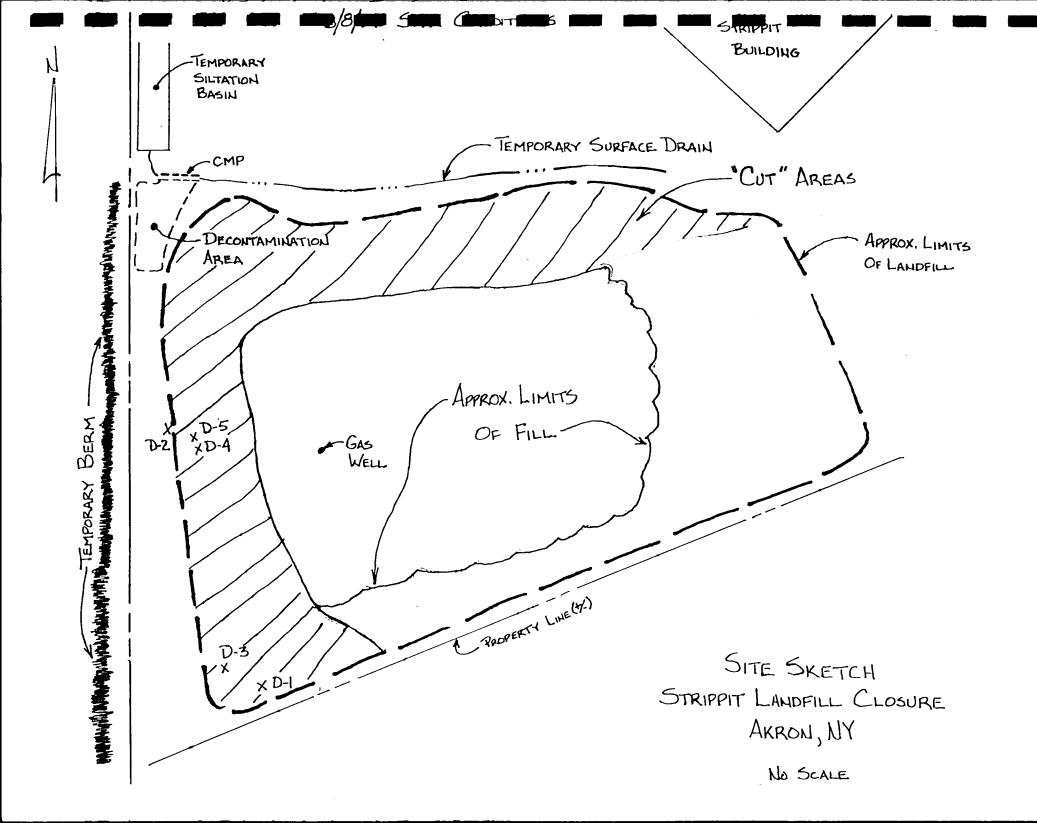
Respectfully submitted by: Day Engineering, P.C.

Raymond L. Kampff

cc: All Attendees

B. Johnson - Strippit

File



MEETING MINUTES

SUBJECT:

Strippit Landfill Closure

Site Meeting #3

MEETING

DATE:

August 15, 1994

TIME:

13:10 - 14:50

PLACE:

Field office Strippit site

ATTENDEES:

J. Walia - NYSDEC

J. Tuk - NYSDEC

K. Glaser - NYSDEC

R. Kampff - Day

J. Dorety - Day

L. Emerson - Haseley

I. Job Progress Since Last Meeting:

Grading and contouring at the existing landfill has been completed except for minor grading in the southern portion of the site (see attachment site sketch). Proof rolling was done throughout the landfill and a soft area near the top of the slope in the northwest portion of the site was identified and repaired. Survey has been completed and this work indicates the landfill was at the desired grade. Select fill placement began on August 15, 1994.

Work during the period also included extending the riser and protective casings for monitoring wells GW-2 and GW-5 (see attached sketch).

II. Problems/Resolution

Problems identified during the work period and their resolution are discussed below.

- 1. Haseley has not yet provided an updated construction schedule which accounts for the additional time required to grade and contour the site.
 - Resolution: L. Emerson stated that the schedule will be provided in the near future.
- 2. As requested by J. Walia at the 8/8/94 meeting, select fill sources were evaluated in an attempt to locate a material containing a higher clay fraction. No source could be located for placement within the required time frame. Therefore, as discussed at the 8/8/94 meeting, Day evaluated the thickness of the natural soils covering the regraded landfill. This evaluation indicated that areas of the landfill contained more than one-foot of cover but in other areas less than one foot was present.

Resolution: Based upon these findings it was decided by Day and NYSDEC that the select fill (as provided by Haseley) would be placed and visually observed by Day for material consistency and compaction effort. Concurrent with the select fill placement, Haseley will attempt to locate a barrier protection source that contains a uniform mixture of sand, silt and clay (i.e., a glacial till) and provide a grain size analysis. This material will be tested to determine its maximum dry density and optimum moisture content while select fill and geomembrane placement is being done. The bottom 6 inch layer of the barrier protection material will be compacted and its in-place density and moisture content will be measured with a nuclear density gage. The placement of the top 12 inches of the barrier protection material will be observed by a Day representative.

3. J. Walia requested that Strippit, Inc. provide comments on the NYSDEC's draft document "IRM Decision Document" as soon as possible.

Resolution: R. Kampff stated that he would contact Strippit and that comments should be provided this week.

4. Haseley has not yet submitted a gradation curve for their proposed barrier protection material.

<u>Resolution</u>: L. Emerson indicated several potential sources are being tested and results should be available the week of 8/15/94.

III. Work Planned Through Next Meeting

Placement of the bottom 6 inches of the select fill layer will continue through the majority of the week. L. Emerson indicated that the geomembrane liner installer should mobilize to the site on or about 8/22/94.

IV. Next Meeting

August 22, 1994 (13:00 hours) in the field office at the Strippit site.

i finjest

Respectfully submitted by:

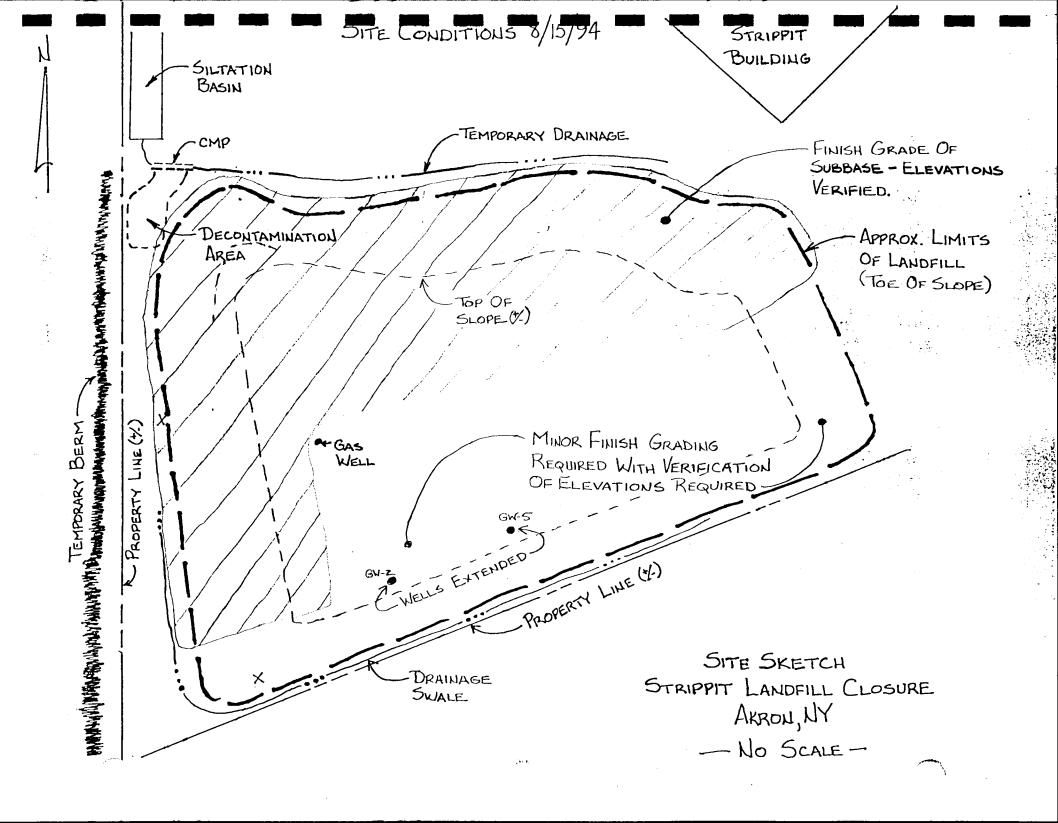
Day Engineering, P.C.

Raymond L. Kampff

cc: All Attendees

B. Johnson - Strippit

File



MEETING MINUTES

SUBJECT:

Strippit Landfill Closure

Site Meeting #4

MEETING

DATE:

August 22, 1994

TIME:

13:00 - 13:30

PLACE:

Field office Strippit site

ATTENDEES:

J. Walia - NYSDEC

K. Glaser - NYSDEC

R. Kampff - Day

J. Dorety - Day

L. Emerson - Haseley

I. Job Progress Since Last Meeting:

The bottom six (6) inches of select fill has been placed throughout the site except for a small area along the northeast slope. This area should be covered by the end of the work day on August 22, 1994. The landfill has been surveyed to establish grades prior to geomembrane placement and to layout the anchor trench and surface drainage swales.

Additional work completed in the period included the pouring of a concrete pad around the gas well and two existing monitoring wells. The geomembrane will be anchored to these pads.

II. Problems/Resolution

Problems identified during the work period and their resolution are discussed below.

- 1. Haseley has not yet provided an updated construction schedule which accounts for the additional time required to grade and contour the site.
 - Resolution: L. Emerson provide an updated schedule at this meeting. A copy of this schedule is attached to these minutes.
- 2. It is expected that the geomembrane installer should be on-site beginning on August 24 or 25, 1994. L. Emerson indicated that the installer may desire to work this weekend and wanted to know if this could be done.

Resolution: No concerns were expressed at the meeting but R. Kampff indicated he had to check with Strippit. [Note: During a subsequent conversation, Strippit indicated that they had no problems with working on Saturday provided there would be no additional cost for such work.]

3. Haseley has yet to submit their proposed barrier protection material source.

Resolution: L. Emerson indicated that a decision should be made this week. He did provide a gradation curve for one possible source but he stated negotiations with the owner were still on-going.

4. Based upon survey layout completed for Haseley, there appears to be insufficient room to construct the anchor trench and drainage swale along the southern boundary of the site, as shown on the project plans. This is attributable to a presence of the Niagara Mohawk power lines in this area and their minimum clearance requirements.

Resolution: Day provided a sketch with three (3) possible alternatives for this area (copy attached). J. Walia indicated that he would discuss the situation with other representatives of the NYSDEC and contact Day on August 23, 1994.

III. Work Planned Through Next Meeting

Following proof rolling and observation of the bottom 6-inch layer of the select fill, the geomembrane installation will begin. It is expected that geomembrane installation will begin on August 24 or 25, 1994.

IV. Next Meeting

August 29, 1994 (13:00 hours) in the field office at the Strippit site.

Respectfully submitted by:

Day Engineering, P.C.

Raymond L. Kampff

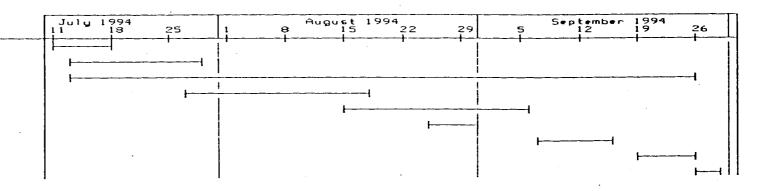
cc: All Attendees

B. Johnson - Strippit

File

HASELEY TRUCKING CO., INC. 10315 LOCKPORT ROAD NIAGARA FALLS, NY 14304 REVISED 08/17/94

MOBILIZE & MAT'L TESTING
CLEAR/GRUB/CLEAN DITCH
TEMP.EROS/SED. CONTROL
GRADE SUBGRADE
SELECT EARTH
GEOMEMBRANE
BARR.PROT.LAYER
TOPSOIL
SEED





DAY ENGINEERING, P.C.

2144 BRIGHTON-HENRIETTA TOWN LINE RD., ROCHESTER, NY 14623

SHEET___OF

ENVIRONMENTAL ENGINEERING CONSULTANTS

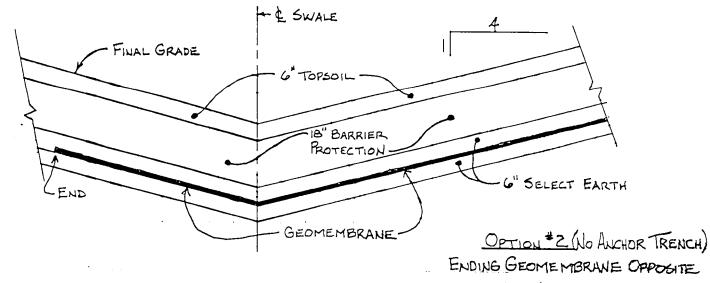
B' BARRIER
PROTECTION

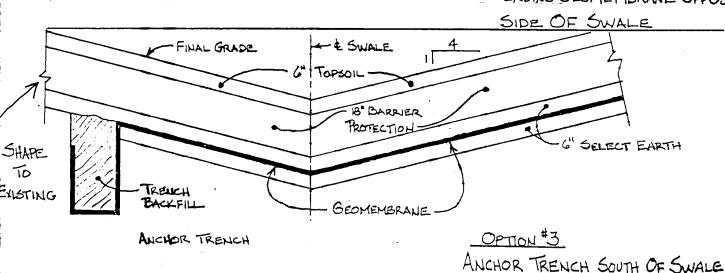
END

GEOMEMBRANE

OPTION #1 (No Auchor Trench)

ENDING GEOMEMBRANE UPSLOPE OF SWALE





CALC. BY: JJD	DATE: 8/20/94	PROJECT NO : STRIPP, 94-2430R
CH'KD BY:	_DATÉ:	DESCRIPTION: SOUTHERY LINER OPTIONS

MEETING MINUTES

SUBJECT:

Strippit Landfill Closure

Site Meeting #5

MEETING

DATE:

August 29, 1994

TIME:

13:05 - 13:25

PLACE:

Field office Strippit site

ATTENDE**E**S:

J. Walia - NYSDEC

K. Glaser - NYSDEC

R. Kampff - Day J. Dorety - Day

L. Emerson - Haseley

I. Job Progress Since Last Meeting:

The bottom six (6) inch layer of select fill was placed throughout the site, proof rolled and observed by Day. The geomembrane installer (Environmental Security Services, Inc.) mobilized to the site on August 25, 1994. Geomembrane placement began on August 26, 1994 and continued throughout the period, including Saturday, August 27, 1994. At the time of the meeting, the geomembrane had been placed over the entire site with the exception of the northwestern-most slope. Liner testing (destructive and non-destructive seam tests) was done following seaming operations. To date, all such tests have passed applicable requirements.

Additional work completed in the period included the excavation and backfill of the anchor trench along the western edge of the landfill. During this excavation apparent petroleum stained soil was encountered in an approximate 20-25 foot long portion of this trench (see attached site sketch and discussion below).

II. Problems/Resolution

Problems identified during the work period and their resolution are discussed below.

1. As discussed at the August 22, 1994 meeting, the survey completed by Haseley indicated that there was apparently insufficient room along the southern site boundary to construct the anchor trench and drainage swale as depicted on the project plans.

Resolution: NYSDEC discussed the matter with Day and Haseley representatives and reviewed a site sketch of three (3) possible alternatives provided by Day. Following their review, the NYSDEC selected the second option proposed by Day (i.e., extending geomembrane through the drainage swale, see attached sketch). Thus Haseley constructed the liner in this area in accordance with the approved sketch.

2. Haseley provided a graduation curve for material they propose for use as a barrier protection material. However, compaction test results have not yet been provided.

Resolution: L. Emerson indicated that compaction test results should be available by August 31, 1994. [Note, since the proposed barrier protection material is a glacial till with about 46% passing the #200 sieve, Haseley proposed to use this material as backfill for the anchor trench. NYSDEC discussed this matter with Day and reviewed available gradation curves. Following their review, NYSDEC approved the use of this material as anchor trench backfill.]

3. During excavation for the anchor trench along the western side of the site on August 29, 1994, stained soil with a distinct apparent petroleum (diesel) type odor was encountered (see attached sketch). Based upon observations made during the excavation for the anchor trench and subsequent test pits, the material visually appeared to extend from about 2.5 feet below the ground surface to a depth of about 5± feet and it appeared to extended a distance of about 20 to 25 feet along the anchor trench. The extent of this material to the west is unknown.

Resolution: It was mutually decided by Day and NYSDEC that initially the extent of contamination along the anchor trench (laterally and vertically) would be evaluated in the field. This would be done by excavating with a backhoe and screening samples with a Photoionization Detector (PID) and a Flame Ionization Detector (FID). Excavation would continue until "clean" samples, as determined by observation and PID/FID measurements were encountered. The excavated soil will be segregated into piles of apparently contaminated and clean soil. Evaluation of the extent of contamination to the west will be done by excavating a test pit perpendicular to the anchor trench. This trench will extent approximately five (5) feet from the western edge of the anchor trench. In the event apparent contamination extends more than five (5) feet from the trench, the test pit will be backfilled and the anchor trench will be constructed through the area. The extent of contamination to the west would be evaluated at a latter date.

The apparent contaminated soil excavated from the anchor trench and the test pit will be stockpiled on plastic sheeting and covered with plastic sheeting to preclude rainwater infiltration. Samples of this material will be collected for characterization purposes and the material will be disposed off site.

4. J. Walia indicated the NYSDEC will require that confirmatory samples be taken along the drainage trench located along the western edge of the Strippit parking lot.

Resolution: J. Walia and R. Kampff walked the site to locate potential sampling locations. Two (2) locations (i.e., adjacent to monitoring well GW-3 and about 300 feet down stream) were selected by J. Walia. It is understood that these samples will be collected and tested by NYSDEC and that there would be no additional cost to Strippit for this work. Strippit may or may not collect split samples at the time of the NYSDEC sampling.

III. Work Planned Through Next Meeting

Following receipt of acceptable test results for the geomembrane seams, Haseley will begin to place the top six (6) layer of select fill. To the extent possible, this will be immediately followed by the placement of the bottom six (6) inch lift of barrier protection material. Additional work in the period should include anchor trench construction.

IV. Next Meeting

September 6, 1994 (13:00 hours) in the field office at the Strippit site.

Respectfully submitted by: Day Engineering, P.C.

Raymond L. Kampff

cc: All **A**ttendees
B. **Jo**hn**so**n - Strippit
File

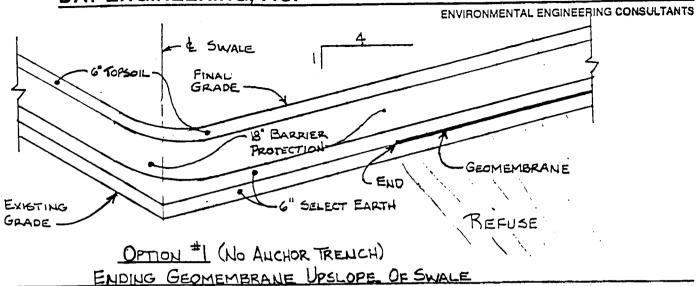
Bldg. Temporory Siltotion Bosin Approx. Landfill Limits · Gas WPII Approximate location Property Line of apparent petroleum Stained Soil within anchor tranch excavation Site Skotch Strippit Closure - Not to Scale -

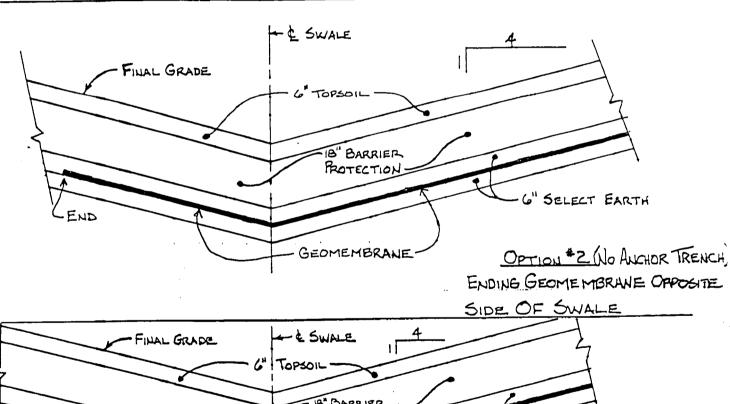


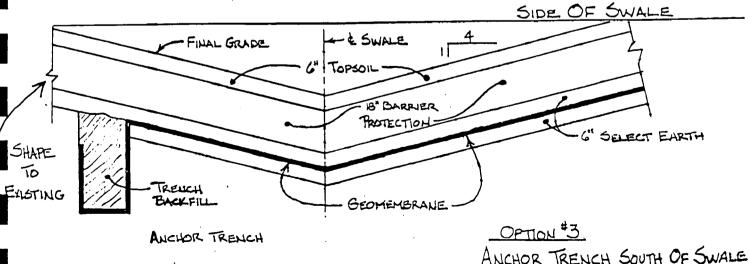
SHEET OF

DAY ENGINEERING, P.C.

2144 BRIGHTON-HENRIETTA TOWN LINE RD., ROCHESTER, NY 14623







CALC. BY: 10 DATE: 8/20/94 PROJECT NO.: STRIPP. 94-2430R

MEETING MINUTES

SUBJECT:

Strippit Landfill Closure

Site Meeting #6

MEETING

DATE:

September 6, 1994

TIME:

13:10 - 13:40

PLACE:

Field office Strippit site

ATTENDEES:

J. Walia - NYSDEC

K. Glaser - NYSDEC
J. Tuk - NYSDEC
R. Kampff - Day
J. Dorety - Day
L. Emerson - Haseley

I. Job Progress Since Last Meeting:

During this period, geomembrane placement/testing was completed. Non-destructive and destructive test results indicate the geomembrane seams were constructed within the required tolerances. The geomembrane installer (Environmental Security Services, Inc.) demobilized from the site on September 1, 1994. Following receipt of seam test results, Haseley began placement of the top six-inch lift of select fill. At the time of the meeting, approximately 75% of the geomembrane was covered with select fill. Generally, the remaining areas to be covered include the side slopes along the north and west sides of the site.

Additional work completed during the period included the excavation and backfilling of the anchor trench. During this work, apparent petroleum-contaminated soil was encountered on the west side of the site. Material excavated during anchor trench construction within this area was stockpiled on excess geomembrane material and covered with plastic sheeting. Currently, testing is underway to characterize this material (see discussion below).

П. Problems/Resolution:

1. Some of the barrier protection material being brought to the site contains larger rocks. As such, this material does not satisfy the specifications.

<u>Resolution:</u> L. Emerson indicated that he was aware of this problem, and that an alternative source of barrier protection material (i.e., Pine Hill, Genesee Street) will be used. A gradation curve was previously submitted for this material, and it appears satisfactory. L. Emerson will provide proctor test results for this material.

2. Apparent petroleum-contaminated (diesel) soil was encountered during excavation for the anchor trench (see August 29, 1994 meeting minutes).

Resolution: During this period the extent of contaminated material (laterally and vertically) within the anchor trench was evaluated. This was done by excavating with a backhoe and collecting samples for observation and in-situ testing. This testing was done by measuring gases within the headspace of a sample jar using a Photoionization Detector (PID; HNU Model 101) and a Flame Ionization Detector (FID; Model OVA 128 Century Organic Vapor Analyzer). Based on this work, the petroleum-contaminated soil appeared to extend a distance of about 30 feet along the trench, at a depth of between about 2.5 feet and 6.0 feet below ground surface. The maximum concentrations measured in the headspace of samples collected from this portion of the anchor trench were: PID = 38 ppm and FID = 126 ppm. Soils observed within a trench made perpendicular to the anchor trench indicated that the petroleum-related contamination extended a distance of at least 6.0 feet to the west of the anchor trench.

To expedite closure construction, the anchor trench was constructed through this area by attaching additional geomembrane material to the landfill cover so that the geomembrane could be placed throughout the six-foot deep trench. Thereafter, low permeability backfill material was placed and compacted.

Samples of the contaminated material and material from the invert of the anchor trench were also collected for analytical testing. These samples were delivered to ACTS Testing Laboratories for testing of the following parameters:

- VOCs (USEPA Method 8260)
- S-VOCs (USEPA Method 8270 base/neutral fraction)
- TCLP metal fraction
- **PCBs** (USEPA Method 8080)
- TPH (Method 310-13)

Apparent contaminated material excavated from the trench was stockpiled on sheets of excess geomembrane material and covered with plastic sheeting. Following testing, this material will be handled and disposed. Also, the extent of apparent petroleum-contaminated soil to the west of the anchor trench will be evaluated upon receipt of the analytical results.

3. Drums encountered during grading and contouring of the site have to be characterized and removed/disposed.

Resolution: Strippit has retained Waste Technology Services, Inc. of Niagara Falls, New York to complete this work. Sampling/testing of the overpack drums should begin this week.

4. A post-closure monitoring and maintenance plan for the site has not yet been submitted.

Resolution: R. Kampff indicated that this document is being prepared and it should be submitted during the week of 9/12/94.

5. Confirmatory soil/sediment samples are required within the drainage trench along the western edge of the Strippit parking lot.

Resolution: J. Walia indicated that these samples will be collected by the NYSDEC during the week of 9/12/94. R. Kampff indicated that Strippit may want to collect split samples.

III. Work Planned Through Next Week

L. Emerson indicated that the top six-inch lift of select fill should be placed throughout the site by 9/7 or 9/8/94. Barrier protection material placement will continue immediately after the select fill is proof rolled and survey is complete indicating a sufficient thickness. To expedite placement, Haseley will mobilize an additional bulldozer to the site. R. Kampff reminded Haseley that the bottom six-inch lift of barrier protection material will require field density testing, and that additional lifts of barrier protection material could not be placed until passing test results are obtained for the underlying material.

IV. Next Meeting

September 12, 1994 (13:00 hours) in the field office at the Strippit site.

Respectfully submitted by:

Day Engineering, P.C.

Raymond L. Kampff

cc: All Attendees

B. Johnson - Strippit

Laymond L. Kampto land

File

MEETING MINUTES

SUBJECT:

Strippit Landfill Closure

Site Meeting #7

MEETING

DATE:

September 12, 1994

TIME:

13:30 - 13:55

PLACE:

Field office Strippit site

ATTENDEES:

J. Walia - NYSDEC

R. Kampff - Day J. Dorety - Day

L. Emerson - Haseley

I. Job Progress Since Last Meeting:

Work completed during the period included the placement of the top six (6) inch lift of select fill and the start of barrier protection material placement. At the time of the meeting, the bottom six (6) inches of barrier protection had been placed and compacted throughout the site. In-situ field density tests on this material indicate that it was compacted to at least 95% of its maximum density, as measured by AASHTO Standard T99, Method C. Additionally, the second six (6) inch lift of barrier protection material was placed over the site except for the northern-most slope.

II. Problems/Resolution:

1. Apparent petroleum-contaminated soil was encountered during excavation of the anchor trench (see meeting minutes for Site Meeting #6).

Resolution: Two samples of this material were submitted to ACTS Testing Laboratories for analytical testing. One of these samples (a composite of petroleum-contaminated soil currently stored in a stockpile) was tested via an accelerated schedule. The preliminary results of this testing (see attached) analytical report indicate the material contains approximately 0.1 percent petroleum products, that have a molecular weight in the range of kerosene intermixed with low concentrations of solvents such as chloroform (6.7 ppb), tetrachloroethene (8.7 ppb) and methylene chloride (16.0B ppb) and PCBs (Arochlor 1254: 0.91 ppm). Based upon testing completed, it would appear the substance is a waste oil and that it is not hazardous.

Based upon the test results it was mutually decided by J. Walia and R. Kampff that the extent of contamination remaining in place to the west of the trench should be evaluated by excavating additional test pits in the area and making field measurements with a PID (HNu Model 101) and FID (Model OVA-128 Century Organic Vapor Analyzer). Prior to this work, the area will be surveyed by a professional land surveyor to establish the property line in this area. During excavation, contaminated material, as determined by field measurements, will be placed in the on-site stockpile and the excavation will be backfilled with clean fill. In the event contamination extends to the property line, no off-site excavation will be done at this time. Rather, NYSDEC and Strippit will be consulted to determine options for the evaluation and remedation of this material.

2. Compaction test results submitted for the barrier protection material (i.e., a maximum dry density of 131.3 pcf at an optimum moisture content of 9.2%) were in error.

Resolution: A second sample was collected by SJB Services, Inc. and tested. The results of this testing indicate the maximum dry density is actually 119.7 pcf at an optimum moisture content of 10.7%. It appears that the reason for the error is that the original testing laboratory mistakenly tested the wrong sample.

3. Confirmatory soil/sediment samples are required within the drainage trench along the western edge of the Strippit parking lot.

Resolution: J. Walia indicated that these samples will be collected on September 14, 1994 by the NYSDEC. He expects these samples will be tested for Target Analyte List (TAL) metals and possibly semi-volatile organic compounds.

III. Work Planned Through Next Week

Barrier protection placement should be completed by September 15 or 16, 1994. Topsoil placement will begin immediately after, the barrier protection material has been proof-rolled to the satisfaction of the Day representative. In conjunction with the topsoil placement, drainage trench construction will be done.

Following placement of the second six (6) inch lift of barrier protection material, Field Services, Inc. will place a plastic pipe from the on-site gas well to a condensation tank located north of the site. This pipe will then be covered by the final lift of barrier protection material and topsoil.

IV. Next Meeting

September 19, 1994 (13:00 hours) in the field office at the Strippit site.

Respectfully submitted by: Day Engineering, P.C.

Raymond J. Kamptt and

Raymond L. Kampff

cc: All Attendees

B. Johnson - Strippit

File

SENT BY: ACTS TESTING LABS, INC; 9-13-94 : 2:02PM :



PRELIMINARY

ACTS TESTING LABS. INC.

25 Anderson Road Buffalo, NY 14225-4928 Tel (716)897-3300 Fax (716)897-0876

Technical Report 4B-4129ER File # Stripp-94-2430R REVISED REPORT

September 13, 1994 Page 1 of 5

Mr. Ray Kampff DAY ENVIRONMENTAL, INC.

SUBJECT

Analysis of one (1) soil cample for various parameters. The sample was received on August 31, 1994.

RESULTS

On Pages Two through Five.

EXPERIMENTAL

Polychiorinated Biphenyls (PCBs) in soil was determined according to United States Environmental Protection Agency Method 3540: Soxiler Extraction and Method 8080: Organochlorine Penticides and PCBs.

Semi-volatile Organics in soil was determined according to Snited States Environmental Protection Agency Method 827th Semi-volatile Organics.

Volatile Organics in soil was determined according to United States Environmental Protection Agency Method 2260: Volatile Organics.

The Toolcity Characteristic Leaching Procedure for Metals was determined as defined in Title 40, Code of Federal Regulations, Part 268, Appendix 1. The Toocity Characteristic Leaching Procedure was conducted according to "Test Methods for the Emmination of Solid Waste Physical/Chemical Methods*, EPA SW-846.

The remaining analysis was determined according to United States Environmental Protection Agency Methods for Chemical Analysis of Water and Wastes", March 1983.

Petroleum Products in soil was determined according to New York State Department of Health modified procedure 310-13: Petroleum Products in Water.

ACTS TESTING LABS, INC

Charles E. Hartke

Manager, Chemistry Laboratory

ACTS TESTING LABS. INC.

Lisa M. Clerici, Supervisor Wet Chemistry Laboratory

ACTS TESTING LABS, INC.

ElizabertiR. Hausier, Supervisor

Chromatography Laboratory

cme

Our reports and letters are for the exclusive use of this clean to whomsettin they are sociassed. Cummunication of ACTS Testing Labe, Inc. reports and letters to any others and other sand of the clean to the communication of ACTS. Testing Libbs, Inc. requires our prior written approval. Our letters and reports are irrained solely (i) to atlandards and proportings seen feed in them and (0) to the significal beautiff. Yest fature indicative nor representative (i) of the quality of the lot from which the sample vert taken or (ii) of apparently smaller or iduntical products. Unless otherwise attains, it is the comparishtally of the cuent to insure the representativeness of the samples submitted in ACTS Teating Labor. Inc. for fashing.

USA



PRELIMINARY

September 13, 1994 Technical Report #4B-4129E Page 2 of 5

RESULTS:	ACTS #4B-4129E		
_	2430-08314-ATI	TCLP Blank	TCLP Limit
TCLP Metals			
Arsenic	LT 0.05	LT 0.05	5.0
Bariu m	6.22	LT 0.00 5	100.0
Cadmium	0.010	LT 0.005	1.0
Chromium	0. 01	LT 0.01	5.0
Lead	LT 0.03	LT 0.03	5.0
Mercury	LT 0.0002	LT 0.0002	0.2
Selenium	LT 0.12	LT 0.12	1.0
Silver	0.021	LT 0.005	5.0

LT = Less Than

The results are reported as milligrams per liter (mg/L)

Petroleum Hydrocarbons (418.1)

0.085

Result is reported as % by weight.

Petroleum Hydrocarbons (310-13): Gasoiine - None detected

Lubricating Oils - None detected

Kerosene 1.39

Fuel Oil LT 0.01

LT=Less Than

Results are reported as microliters per gram (uL/g) or parts per thousand.

EPA 8270	
N-Nitroso-dimethylamine	LT 76.0 (LT 76.0)*
Bis (2-chloroethyl) ether	LT 38.0 (LT 38.0)*
1,3-Dichlorobenzene	LT 38.0 (LT 38.0)*
1,4-Dichlorobenzene	LT 380 (LT 380)*
1,2-Dichlorobenzene	LT 38.0 (LT 38.0)*
Bis (2-chloroisopropyl) ether	LT 38.0 (LT 38.0)*
N-Nitroso-di-n-propylamine	LT 38.0 (LT 38.0)*
Hexachloroethane	LT 38.0 (LT 38.0)*
Nitrobenzene	LT 38.0 (LT 38.0)*
Isophorone	LT 38.0 (LT 38.0)*
Bis (2-chloroethoxy) methane	LT 38.0 (LT 38.0)*
1,2,4-Trichlorobenzene	LT 38.0 (LT 38.0)*
Napthalene	210.0 (180.0)*
4-Chloroaniline	LT 38.0 (LT 38.0)*
Heachlorobutadiene	LT 76.0 (LT 76.0)*
2-Methyinanhthalene	1000.0 (910.0)*



PRELIMINARY

September 13, 1994 Technical Report #4B-4129E Page 3 of 5

ACTS	#4B-4129E
2430-0	8314-AT1

Herachlorocyclopentadiene	LT 380.0 (LT 380.0)*
2-Chloronaphthalene	LT 38.0 (LT 38.0)*
2-Nitroaniline	LT 38.0 (LT 38.0)*
Dimethylphthalate	LT 38.0 (LT 38.0)*
Accaphthylene	LT 38.0 (LT 38.0)*
2,6-Dinitrotoluene	LT 38.0 (LT 38.0)*
Acenaplathene	LT 38.0 (LT 38.0)*
3-Nitroaniline	LT 76.0 (LT 76.0)*
Dibenzofuran	LT 38.0 (LT 38.0)*
2,4-Dinitrotoluene	LT 38.0 (LT 38.0)*
Diethylphthalate	160.0 (180.0)*
Fluorene	LT 38.0 (LT 38.0)*
4-Nitroaniline	LT 76.0 (LT 76.0)*
4-Chlorophenyl phenyl ether	LT 76.0 (LT 76.0)*
N-Nitrosodiphenylamine	LT 38.0 (LT 38.0)*
4-Bromophenyl phenyl ether	LT 38.0 (LT 38.0)*
Hexachlorobenzene	LT 38.0 (LT 38.0)*
Phenanthrene	LT 38.0 (LT 38.0)*
Anthracene	LT 38.0 (LT 38.0)*
Carbazole	LT 38.0 (LT 38.0)*
Di-n-butyl phthlate	LT 38.0 (LT 38.0)*
Fluoranthene	LT 38.0 (LT 38.0)*
Pyrcne	LT 38.0 (LT 38.0)*
Butyl benzyl phthalate	99.0 (LT 38.0)*
Bcnzo(a)anthracene	LT 38.0 (LT 38.0)*
3-3'-Dichlorobenzidine	LT 76.0 (LT 76.0)*
Chrysene	LT 38.0 (LT 38.0)*
Bis (2-ethylhexyl) phthlate	120.0 (70.0)*
Di-n-octyl phthlate	LT 38.0 (LT 38.0)*
Benzo(b)fluoranthene	LT 38.0 (LT 38.0)*
Benzo(k)fluoranthene	LT 38.0 (LT 38.0)*
Benzo(a)pyrene	LT 38.0 (LT 38.0)*
Indo(1,2,3-cd) pyrene	LT 38.0 (LT 38.0)*
Dibenz(a,b)anthracene	LT 38.0 (LT 38.0)*
Benzo(g,h,i)perylene	LT 38.0 (LT 38.0)*

LT=Less Than •= Duplicate results

Results are reported as micrograms per kilogram (ug/Kg).

EPA	8260
------------	------

LT 0.6 (LT 0.6)*
LT 0.6 (LT 0.6)*
16.0B (19.0B)*

B=Found in Method Blank at 19.0 ug/Kg.



PRELIMINARY

September 13, 1994 Technical Report #4B-4129E Page 4 of 5

260 (con't);	ACTS #4B-4129E
Maria 1 A Politica de la	2430-08314-AT1
Trans 1,2-Dichloroethene	LT 0.6 (LT 0.6)*
1,1-Dichloroethane	LT 0.6 (LT 0.6)*
Cis 1,2-Dichloroethene	LT 0.6 (LT 0.6)*
2,2'-Dichloropropane	LT 0.6 (LT 0.6)*
Bromochioromethane Chloroform	LT 0.6 (LT 0.6)*
	6.7 (9.9)*
1,1,1-Trichloroethane	LT 0.6 (LT 0.6)*
1,1-Dichioropropene Carbon Terrachloride	LT 0.6 (LT 0.6)*
1,2-Dichloroethane	LT 0.6 (LT 0.6)*
Benzene	*(6.0 T.D 6.0 T.L
Trichloroethene	LT 0.6 (LT 0.6)* LT 0.6 (LT 0.6)*
1,2-Dichloropropane	
Dibromomethane	LT 0.6 (LT 0.6)* LT 0.6 (LT 0.6)*
Bromodichloromethane	
Toluene	LT 0.6 (LT 0.6)*
cis-1,3-Dichloropropene	8.8 (17.0)* LT 0.6 (LT 0.6)*
1,1,2-Trichloroethane	LT 0.6 (1.4)*
1,3-Dichloropropane	LT 0.6 (LT 0.6)*
Tetrachloroethene	8.7 (9.2)*
Dibromochloromethane	LT 0.6 (LT 0.6)*
1,2-Dibromomethane	LT 0.6 (LT 0.6)*
Chlorobenzene	LT 0.6 (0.5)*
1,1,1,2-Tetrachloroethane	LT 0.6 (3.2)*
Ethylbenzene	1.0 (12.0)*
M,P-Xylenes	13.0 (15.0)*
O-Xylene	10.0 (13.0)*
Styrene Styrene	LT 0.6 (LT 0.6)*
Bromoform	LT 0.6 (LT 0.6)*
Isop ro py ibe nzene	2.4 (2.5)*
1,1,2,2-Tetrachloroethane	LT 0.6 (LT 0.6)*
1,2,3-Trichloropropane	LT 0.6 (LT 0.6)+
Bromobenzene	LT 0.6 (LT 0.6)*
n-Propyibenzene	6.5 (6.8)*
2-Chlorotoluene	LT 0.6 (LT 0.6)*
1,3,5-Trimethyibenzene	50.0 (61.0)*
4-Chilorotoluene	LT 0.6 (LT 0.6)*
tert-Butylbenzene	*(2.0 TJ) 2.0 TJ
1,2,4-Trimethylbenzene	160.0 (200.0)*
sec-Butylbenzene	14.0 (16.0)*
p-Isopropyltoluene	21.0 (23.0)*
1,3-Dichlorobenzene	LT 0.6 (LT 0.6)*
1,4-Dichlorobenzene	LT 0.6 (1.0)*
n-Butylbenzene	21.0 (24.0)*
1,2-Dichlorobenzene	LT 0.6 (LT 0.6)*
1,2-Dibromo-3-chloropropane	3.3 (3.8)*
1,2,4-Trichlorobenzene	LT 0.6 (LT 0.6)*
Hexachlorobutadiene	LT 0.6 (LT 0.6)*
Naphthalene	70.0 (87.0)*
1,2,3-Trichlorobenzenc	LT 0.6 (LT 0.6)*

LT=Less Than

Results are reported as micrograms per kilogram (ug/kg).

^{•=} Duplicate results

ACIZ-BLF- 110 023 3110



PRELIMINARY

September 13, 1994 Technical Report #4B-4129E Page 5 of 5

EPA 8080 (PCBs only)

Polychlorinated Biphenyls as:

Arochlor-1016	LT 0.094
Arochior-1221	LT 0.094
Arochlor-1232	LT 0.094
Arochlor-1242	LT 0.094
Arochlor-1248	LT 0.094
Arochlor-1254	0.91
Arochlor-1260	LT 0.094

LT=Less Than

Results are reported as micrograms per gram (ug/g).

DAY ENGINEERING, P.C. 2144 Brighton-Henrietta Town Line Road Rochester, New York 14623 (716)292-1090

94-2430R / RK134 September 26, 1994

SUBJECT:

Strippit Landfill Closure

Site Meeting #8

MEETING **DAT**E:

September 19, 1994

TIME:

13:10 - 13:40

PLACE:

Field Office Strippit Site

ATTENDE**E**S:

J. Walia - NYSDEC

K. Glaser - NYSDEC R. Kampff - Day

L. Emerson - Haseley

I. Job Progress Since Last Meeting

Since the last meeting, the entire barrier protection layer has been placed and compacted. Proof-rolling indicated that the barrier protection material was sufficiently compacted and the thickness of the barrier protection layer was verified by survey. Following this verification, topsoil placement began. At the time of the meeting, approximately 75% of the site was covered with topsoil.

Other work during the period included the construction of the drainage trench along the northern border of the site. Additionally, petroleum contaminated soil on the west side of the site was excavated between the anchor trench and the property line. This material was stockpiled for subsequent treatment/disposal.

II. Problems/Resolution

1. Apparent petroleum-contaminated soil was encountered during excavation of the anchor trench (see meeting minutes for the site meetings #6 and #7).

Resolution: Potentially contaminated soil from the anchor trench was excavated and stockpiled on plastic sheeting. During this removal, two samples were collected for analytical testing. One sample of the material determined to be impacted was tested via an expedited schedule. These results were presented with the site meeting minutes #7. The second sample was collected from the invert and the anchor trench (i.e., from soil deemed "clean" based upon field observation and testing). The results of this testing (attached to this submittal) indicate only low concentrations of contaminants related to the apparent petroleum-contaminated soil.

2. During removal of petroleum contaminated materials located on the west side of the anchor trench, petroleum stained soils were encountered extending from the anchor trench to the property line and potentially off-site.

Resolution: Since the discovery of the of-site contamination was made late in the day on Friday, September 16, 1994, it was decided to backfill the excavation with "clean" low permeability fill. Evaluation of the extent of contaminated material beyond the property line was deferred until Strippit could be consulted. [Note: Subsequent evaluation of this area on 9/21/94 indicated that petroleum stained soil extended about 4 feet beyond the property line at a depth of between about 1.5 and 3.5 feet below the ground surface. These soils were excavated, placed on the existing stockpile and the area was backfilled with clean fill.]

3. An initial test submitted by Haseley indicated the topsoil had a pH of 4.9 (i.e., less than the 5.5 to 7.6 range required by the specifications).

Resolution: Additional pH tests were made by Wolf's Nursery (the hydroseeding contractor) that indicated the topsoil was suitable. It is suspected the original topsoil sample was mishandled causing a lower pH.

4. L. Emerson indicated that Haseley desired to modify the seed mixture from that proposed in the specifications. Primarily this change included switching from annual grasses and crown vetch to perennial grasses and crown vetch. This change was requested primarily due to the fall seeding schedule.

Resolution: Day discussed this matter with the hydroseeding contractor and the Monroe County Cooperative Extension. It was determined that the perennial grasses should germinate this year and become established during the next growing season (i.e., 1995). Eventually the crown vetch should overtake the grasses and by 1996 the crown vetch should predominate. Based on these considerations, it was agreed that Haseley could modify the proposed seeding provided the desired vegetative cover was ultimately established and that there would be no additional costs to the project.

5. Confirmatory soil/sediment samples are required within the drainage trench along the western edge of the Strippit parking lot.

Resolution: NYSDEC collected two (2) samples from this trench and one (1) sample at a discharge location east of Clarence Center Road on September 14, 1994. These samples with the tested for TAL metals by NYSDEC. Analytical results will be submitted when the data becomes available.

III. Work Planned Through Next Week

Topsoil placement and surveying to assure finished grades are planned for the next week. Additionally, drainage trench construction and excavation of petroleum-contaminated soil should be completed in this period. Hydroseeding will be done immediately following placement and surveying of the topsoil layer.

IV. Next Meeting

September 26, 1994 (13:00 hours) in the field office at the Strippit site (if needed).

Respectfully submitted by:

Day Engineering, P.C.

Raymond L. Kampff

cc: All Attendees

B. Johnson - Strippit

File



ACTS TESTING LABS, INC.

25 Anderson Road Buffalo, NY 14225-4928 Tel (716)897-3300 Fax (716)897-0876

Technical Report 4B-4130E File # Stripp-94-2430R

September 16, 1994 Page 1 of 4

Mr. Ray Kampff DAY ENVIRONMENTAL, INC.

SUBJECT:

Analysis of one (1) soil sample for various parameters. The sample was received on August 31, 1994.

RESULTS:

On Pages Two through Four.

EXPERIMENTAL:

Semi-volatile Organics in soil was determined according to United States Environmental Protection Agency Method 8270: Semi-volatile Organics.

Volatile Organics in soil was determined according to United States Environmental Protection Agency Method 8260: Volatile Organics.

The Toxicity Characteristic Leaching Procedure for Metals was determined as defined in Title 40, Code of Federal Regulations, Part 268, Appendix 1. The Toxicity Characteristic Leaching Procedure was conducted according to "Test Methods for the Examination of Solid Waste Physical/Chemical Methods", EPA SW-846.

ACTS TESTING LABS, INC.

Charles E. Hartke

Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor Wet Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor Gas/Chromatography Laboratory

cme

Our reports and letters are for the exclusive use of the client to whom which they are addressed. Communication of ACTS Testing Labs, Inc. reports and letters to any others and retters to any others. Testing Labs, Inc. requires our grice written approval. Our lighters and reports are limited collety (i) to standards and procedures identified in them are (ii) to the sample(s) to and. Tost results up not necessary and reports are limited collety (i) to standards and procedures identified in them are (ii) to the sample(s) to and. Tost results up not necessary and reports are limited collety (i) to standards and procedures our grice within approval. Our lighters and reports are limited collety (ii) to standards and procedures our grice within approval. cooping case, the required our guidr waters approval. Our issues and response are emisse solely (i) to also which are information in internation of the responsibility of the dientito insure indicative nor representative (i) of the quality of the lot from which the sample was taken or (ii) of apparently similar or identical products. Unless otherwise stated, it is the responsibility of the dientito insure the representativeness of the samples submitted to AC15 Testing Labs, Inc. for testing



September 16, 1994 Technical Report #4B-4130E Page 2 of 4

RESULTS:	AC1S #4B-4130E 2430-08314-AT2	TCLP Blank	TCLP Limit
TCLP Metals Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	LT 0.05 1.35 0.009 LT 0.01 LT 0.03 LT 0.0002 LT 0.12 0.032	LT 0.05 LT 0.005 LT 0.01 LT 0.03 LT 0.002 LT 0.12 LT 0.005	5.0 100.0 1.0 5.0 5.0 0.2 1.0 5.0

LT = Less Than

The results are reported as milligrams per liter (mg/L)

EDA 9070	
EPA 8270 N-Nitroso-dimethylamine	LT 73.0
Bis (2-chloroethyl) ether	LT 36.0
1,3-Dichlorobenzene	LT 36.0
1,4-Dichlorobenzene	LT 36.0
1,2-Dichlorobenzene	LT 36.0
Bis (2-chloroisopropyl) ether	LT 36.0
N-Nitroso-di-n-propylamine	LT 36.0
Hexachloroethane	LT 36.0
Nitrobenzen e	LT 36.0
Isophorone	LT 36.0
Bis (2-chloroethoxy) methane	LT 36.0
1,2,4-Trichlorobenzene	LT 36.0
Napthalene	LT 36.0
4-Chloroaniline	LT 36.0
Hexachlorobutadiene	LT 73.0
2-Methylnaphthalene	LT 360.0
Hexachlorocyclopentadiene	LT 360.0
2-Chloronaphthalene	LT 36.0
2-Nitroaniline	LT 36.0
Dimethylph th alate	LT 36.0
Acenphthylene	LT 36.0
2,6-Dinitrotoluene	LT 36.0
Acenaphthene	LT 36.0
3-Nitroanili ne	LT 73.0
Dibenzofur an	LT 36.0
2,4-Dinitrotoluene	LT 36.0
Diethylphthalate	150.0
Fluorene	LT 36.0
4-Nitroanili ne	LT 73.0
4-Chlorophenyl phenyl ether	LT 73.0
N-Nitrosod ip he ny lamine	LT 36.0
4-Bromophenyl phenyl ether	1.1.36-0



September 16, 1994 Technical Report #4B-4130E Page 3 of 4

EPA 8270 (con't):	ACIS #4B-4130E 2430-08314-AT2
Hexachlorobenzene	LT 36.0
Phenanthrene	LT 36.0
Anthracene	LT 36.0
Carbazole	LT 36.0
Di-n-butyl phthlate	LT 36.0
Fluoranthene	LT 36.0
Pyrene	LT 36.0
Butyl benzyl phihalate	LT 36.0
Benzo(a)anthracene	LT 36.0
3-3'-Dichlorobenzidine	LT 73.0
Chrysene	LT 36.0
Bis (2-ethylhexyl) phthlate	LT 36.0
Di-n-octyl phthlate	LT 36.0
Benzo(b)fluoranthene	LT 36.0
Benzo(k)fluoranthene	LT 36.0
Benzo(a)pyrene	LT 36.0
Indo(1,2,3-cd) pyrenc	LT 36.0
Dibenz(a,h)anthracene	L'I 36.0
Benzo(g,h,i)perylene	LT 36.0

LT=Less Than

Results are reported as micrograms per kilogram (ug/Kg).

LT 0.5
LT 0.5
LT 0.5
0.7
LT 0.5
LT 0.5
LT 0.5
18.0B
LT 0.5
8.5
LT 0.5
J.T 0.5
LT 0.5
LT 0.5
LT 0.5
LT 0.5
LT 0.5
LT 0.5
LT 0.5
LT 0.5

B=Found in Method Blank at 19.0 ug/Kg.



September 16, 1994 Technical Report #4B-4130E Page 4 of 4

•	
EPA 8260 (con't):	ACTS #4B-4130E
	2430-08314-AT2
cis-1,3-Dichloropropene	LT 05
1,1,2-Trichloroethane	LT 0.5
1,3-Dichloropropane	LT 0.5
Tetrachloroethene	LT 0.5
Dibromochloromethane	LT 0.5
1,2-Dibromomethane	LT 0.5
Chlorobenzene	LT 0.5
1,1,1,2-Tetrachloroethane	LT 0.5
Ethylbenzene	1.3
M,P-Xylenes	LT 1.0
O-Xylene	LT 0.5
Styrene	LT 0.5
Bromoform	LT 0.5
Isopropylbenzene	LT 0.5
1,1,2,2-Tetrachloroethane	LT 0.5
1,2,3-Trichloropropane	LT 0.5
Bromobenzene	LT 0.5
n-Propylbe nz en e	LT 0.5
2-Chlorotoluene	LT 0.5
1,3,5-Trimethylbenzene	LT 0.5
4-Chlorotoluene	LT 0.5
tert-Butylbenzene	LT 0.5
1,2,4-Trimethylbenzene	LT 0.5
sec-Butylbenzene	LT 0.5
p-Isopropyl to lu en e	LT 0.5
1,3-Dichlorobenzene	LT 0.5
1,4-Dichlo rob enzene	LT 0.5
n-Butylben ze ne	LT 0.5
1,2-Dichlor o benzene	LT 0.5
1,2-Dibromo-3-chloropropane	LT 0.5
1,2,4-Trichlorobenzene	LT 0.5
Hexachlorobutadiene	LT 0.5
Naphthalen e	1.5
1,2,3-Trichlorobenzene	LT 0.5

LT = Less Than

Results are reported as micrograms per kilogram (ug/Kg).

APPENDIX C

Generator Waste Characterization Report Buried Drums

ENVOTECH.	GENERATO	R WASTE	CHARACT	ERIZAT	ION REPOR
MANAGEMENT SERVICES, INC.		πN		THOE	6870
An original report form must be completed for ear		a stream. Do a	rot submit co	ples.	WIS# 8665
Or Waste Stream Reapproval? Previous A Complete all sections of this report, attach labora SAMPLE of this waste to the facility. Waste loads secure latter and 2.) the customer has signed and	d teinwed the dad s will you pe ache:	iation agreen	nent.		ATIVE ONE-PIN ily has lequed a
A CONTRACTOR OF THE PROPERTY O	VI MISEOSA	B& FEGO	VERVANCE	05.8¥¥	
This waste approval request is being submitted for	x (check all that a	pply}:			
Michigan Disposel, Inc. 49350 N. [-94 Service Dr Belleville, MI 48111 ATTN: Technical Review	ive so	olids, semi-soli eatment to 80	non-hazardor ids sturries and AT standards ce: (313) 699	d liquids.	atabilization of Inorganic waste
Michigan Recovery Sys 36345 Van Born Road Romulus, MI 48174 ATTN: Technical Review	items, Inc. He en bu	y, recycling, lik waste har	and fuel blene	ding, Co logy is i	e solvent recov- ntainerized and SDAT for many 13) 326-3100
Wayne Disposal, inc. 49350 N. I-94 Service Ori Belleville, MI 45111 ATTN: Technical Review	ive se Cu	rvices, Conta ustomer Servi	inerized and b ce: (313) 697-	ıylk waştı	s waste landfiil e management.
FIRST PROPERTY.	The state of the s	FRANCO	MATION		
Generator Name Scrippit, Inc.	S.I.Ç. C		D 002 118	156	
Plant Name Address 12975 Clarence Center Road Akron State NY Zip 14 Contact Robert Johnson	4001 Telapho	ons (716)	542-4511 F		542-5957
Alternate	Teleph(NAME OF TAXABLE PARTY OF	x ()	
Customer Waste Technology Services,	ne. Has an	account been Account #5	opened?	Yes 🐼	No 🖸
Address 640 Park Place Niagara Falls State NY Zip 143 Contact T. L. Nebrich	<u> </u>	ne (716) 2	92-4100 F	× (716)	282-6986
	ONEVERSAM	PRISTOP OF			
A sample bearing this label must accompany this re the approval review process. Complete this label at REPRESENTATIVE ONE-PINT SAMPLE of the W	nd allach io a		nmon Name: With Spetro	leum	
Record the date and name of person sampling:			Site Name: pit, Inc.		
Sampling completed by Ray Kampff - Day E	ngineering	Sample Co	Hected By:		
Date sample collected September 12, 1994		Ray K	empff - Day	r Engin	eering
Date sample and form sent			ber 12, 19		6870
4					1

See full instructions on separate sheet.

Printed on Recycled Paper - 니크로도 중소등단체

Form 911 (11-91)

	NAME OF THE SECOND OF SELECTION OF AN OFFICE OF THE SECOND
	SEGIO NO M
e e	to this waster a Reactive? Yes W
١.	Is this waste: a. Heactive? Yes No III a. Oxidizer? Yes No III Radioactive? Yes No III
	b. Shock Sensitive? Yes No II Radioactive? Yes I No III
•	Envices Management Services Representative at (313) 697-7830 pators completing the form
	Hyes, contact an Envolver Have Suik Solid Drums
2.	
3.	Shipping Mode: Shipping Volume per Week One Time Only Volume 1-2 drums overpacked
4.	Annual Total Volume To Be Determined
5.	Annual Total Volume To Be Determined UN/NA #*
l	Hazard Class*
77 <u>949</u>	THE REPORT OF THE PARTY OF THE
	The state of the s
١.	Select one or more general description(s) for the waste at 70°F; Sludge (non pumpable)
l ' '	Powdery Solid Liquid (numpable)
	Other Solids
I	Other Soils Liquid (multi phase)
1	Dahla Idagariha
۱	Does the waste have a characteristic odor?* Yes D No XI Describe
2.	DOGS ING MERIA UNA & CUSTIANIA MAA.
13.	Color Description:
	Method 9095
4.	Are Free Liquids associated with this waster 195 11 10 2 specific gravity Density: Mathod 8040 or 8045
5.	Density) Mathod 9040 or 9045
	Density: ba/gallon or lbs/cubic yards of
7.	TO THE PARTY OF TH
,,	NA (SELECTED AND AND SELECTED AND AND AND AND AND AND AND AND AND AN
1	e-uate 200°F [] 90-140°F [] >190°F [8
4.000	THE SECTION VIOLENCE ATING PROCESS & HAVARDOUS GEARAGIERISTIC(S)
2	SECTION VIEW CONTROL PERCE DETROISED WISE \$665
4	Waste Common Name Soil with trace petroleum WTS# 8665 Waste Common Name Soil with trace petroleum WTS# 8665
2	Waste Common Name Soll With Erace petition of the process(es) generaling this waste: (A DETAILED EXPLANATION MUST BE PROVIDED. Provide a description of the process(es) generaling this waste: (A DETAILED EXPLANATION MUST BE PROVIDED.
4.	Provide a description of the process(es) generaling this waste: (A DETAILED DETAILS IF NECESSARY") ATTACH ADDITIONAL PAGE(S) SHOWING PROCESS FLOW DIAGRAM AND DETAILS IF NECESSARY")
Ī	Excavation of drums from old landfill
•	
	the semantile of the
3 .	Based upon lab analyses and/or knowledge of the process(es) generating the waste, describe the composition of the Minimum Maximum
IJ.	
ı	Soils, stone, scale
	Patrolaum 011s
}	Modeture
}	107
	TOTAL:
l	IVI∩E:
4.	Based upon RCRA Hazardous Waste Regulations (40 CFR 261) and Michigan Act 64 Rules: YES NO CODES
74	· ·
	a. Does this waste meet any Filsting description?
	b. Does this waste meet any K listing description?
	b. Does this waste meet any P listing description?
	d. Does this waste meet any U listing description?
1	d. Does this waste meet any o name described. To be Determined
1	The state and the contentity? (ettach lab results)
l	d. Does this waste meet any U Hating description? e. Does this waste exhibit ignitability? (attach lab results)
	e. Does this waste exhibit Ignitability? (attach lab results)
	e. Does this waste exhibit Ignitability? (attach lab results)
}	e. Does this waste exhibit ignitability? (attach lab results)
}	e. Does this waste exhibit ignitability? (attach lab results)
}	e. Does this waste exhibit Ignitability? (attach lab results)
5.	Does this waste leach Zinc > support fathern land Disposal restriction treatment
	j. Does this waste leach zinc > support (attach lab results). For hazardous wastes, does the waste exceed any land Disposal restriction treatment
	J. Does this waste leach Zinc > support fatted less restriction treatment For hazardous wastes, does the waste exceed any land Disposal restriction treatment standard(s) for the applicable codes?* (attach lab results)
	j. Does this waste leach zinc > support (attach lab restriction treatment For hazardous wastes, does the waste exceed any land Disposal restriction treatment D

See full instructions on separate sheet.

THE STATE OF THE S	MEECLAMA	ION/RECYC	PINGE	HABBENDINGS		
Only for Michigan Recovery Systems, Inc. wastes, perform all of the following analyses: Only for Michigan Recovery Systems, Inc. wastes, perform all of the following analyses: Heat value (BTU/ib)						
Waler (%)	0-1-1-6	<u></u>	PO	Bs (total ppm) —		
Sulfur (%) Enclose lab reports for F001 - F005	solvent scan and	TCLP metals:	As.	n (%) —		
建筑。地域以外,是是是一个	SECHEN	CHUCKATE	ATIONS			No
and the second s		مريمه والمسادد	25ስ ለለጠን		Yes 🗆	
Does the waste contain cyanide Does the waste contain reactive	amenable to chi sulfide above 5	00 bbwi; Olivatiou scove	250 ppini			នាមាន
2 Does the waste contain to average	SAINAR MEANA	am24			ы	щ
d. Is this a dioxin/furan waste as ap	STORING III AC DI	Engad	Mazeroou	A Altista		团
numbers F020, F021, F022, F02	O, TORO, THE P.	bataannatori	ornanie so	mpounda found	m	171
5. Is this a California List hazardou in Appendix III of 40 CFR Part 2	55 in total conce	ntration greater	than or equ r Thailium	jai to 1,000 mg/Lr /≤130 mg/L)?		
6. Is this a liquid hazardous waste	containing Nicki le which TCLP t	eaijn <u>o</u> has been	conducted	, (attach		
7, Mark the "Yes" column to illulos lab results")		به مارست. ماد ساد و	onlina stavi	ded.		
isb results") For those constituents not lested Either "Yes" or "No" MUST be ci	i, mark "No" and hecked for each	sign the cettill and every cons	lituent Lituent	a kar	•	
Either "Yes" of 'NO' MUST be as		CONST	ITUENT II	STING CONDUCT	ED	
ACTION	LEVELS	OR CE	ATIFICATION	N		
		YE S	NO	CERTIFICATION		
ZHE ORGANICS* D018 Benzene	mg./L 0.5	_		*Based upon my k	nowledge	of the
D019 Carbon Tetrachloride	0.5			waste and the pro- the waste, these c	onstituen	18 518
D021 Chlorobenzene D022 Chloroform	100.0 ' 6.0		<u> </u>	not present in the	waste abi	cve
Doza 1,2-Dichlorcethane	0.5	0		hazardous classific	sation tex	ψι ς.
Doze 1.1-Dichloroethylene	0,7 200.0	اعمممهمهم	00000000	Signed		
D035 Methyl Ethyl Ketone D039 Tetrachiorosthylene	0.7					
Do40 Trichloroethylene	0.5 0.2					
D043 Vinyl Chloride	•			CERTIFICATION		
METALS"	5.0			"Based upon my k	nowledge	of the
D004 Arsenic D005 Barlum	100.0			waste and the pro-	2853 2 970	erating (
D006 Cadmium	1.0 5.0		1 5	not present in the	waste ab	¢v●
Door Chromium Doos Lead	5.0	ğ		hazardous classific	ation lev	6i 8. "
D008 Mercury	0.2 1.0	0000000000	ممحموموه	Signed		
D010 Selanium D011 Gilver	5 .0	Ĭ		₹	•	
001D Copper	100.0 500.0		H			ł
0030 Zinc	<u>₽</u> ∪∪.∪	-		CERTIFICATION		
ACID EXTRACTABLES	200.0	п	ম	CERTIFICATION Based upon my k	nowiędae	of the
D023 o-Cresoi** D024 m-Cresoi**	200.0 200.0	₫		waste and the pro-	ess gene	eratin g
D025 p-Cresol**	200.0		<u> </u>	the waste, these conct present in the	ənşiliyen Yaste abı	DA G
D026 Cresol D037 Pentachlorophenol	200.0 100.0	Ĭ		hazardous classific	ation lev	el s."
1 DO41 2.4.6-Trichlorophenol	400.0	وووموووه	ផ្តាល់ខាន់ខាន	Signed XR	olins	-
2042 2,4,6-Trichtorophenol	2.0	şani		4.1		
	Waranii alad	Total Creed co	ncentration	•	{C	Continued)
If o, m and p Cresois cannot be di	ualaungiad, hee		THE HIGH	·		

		न्त्रा चिल्ले स्वार्थ	16 (00)	nued		
TCLP REGULATORY CONSTITUENT TESTING CONDUCTED OR CERTIFICATION						
BASE NEUTRAL EXTRACTABLES* D027 1,4-Dichiorobenzene D030 2,4-Dinitrotoluene D032 Hexachlorobenzene D033 Hexachlorobutadiene D034 Hexachloroethane D036 Nitrobenzene D038 Pyridine	7.5 0.13 0.13 0.5 3.0 2.0 5.0	YES	S REBEDDE	CERTIFICATION Based upon my k waste and the pro the waste, these c not present in the hazardous classifi Signed X 72-5	cess generating onstituents are waste above cation levels."	
PESTICIDES* D020 Chlordane D012 Endrin D031 Heptachior (& its Hydroxide) D013 Lindans D014 Methoxychior D015 Toxaphene	0.03 0.02 0.008 0.4 10.0 0.5	00000	E05588	CERTIFICATION "Based upon my k waste and the pro the waste, these of not present in the hazardous classific Signed X R	cation levels."	
HERBICIDES* D016 2,4-D D017 2,4,5-TP (Silvex)	10.0 1.0		Z Z			
All pertinent items must be included 1) Waste Characterization Rep 2) Lab Reports Required for: a. Free Liquid Testing b. pH c. Flashpoint d. Cyanide e. Suifide f. Land Disposal Restriction g. TCLP testing, including C Representative Sample of V 14) MSOS 5) Other:	oort Form , Constituent i	Levels				
hereby authorize Envotech personne ontacted to give verbal permission. I a urposes of verification and confirmation	unonzy env	oresti Na adima	TO VOIGHT	m Amiribia (1.A.i.)		
igned X R Solmon				meg enga	J	
certify that all information fincluding attended known and suspected hazards, and	ached inlorm: waste genera	ation) is comple Lor regulatione,	is and fact pertaining	ual and is an accura to the waste descri	264 110101111	
gnature XTZ Solinson		ed Name Z.	_		Date 9122194	
ompany STRIPPIT THE		Title_	M com	MEG. ENGA		
an full inellicitions on security sites!	Printe	d on Recycled F	aper som s	3⊅:១፤ រាអ.	Form 911 (11-91)	

From: ENVOTECH MANAGEMENT SERVICES, INC. ANALYTICAL LABORATORY 49350 N. I-94 SERVICE DRIVE

BELLEVILLE, MI. 48111

October 4, 1994

Tot Waste Technology Services

640 Park Place

Niagara Falls, NY 14301

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA01052 Purchase order number: VERBAL Generator name: Strippit

Sample collection date: 09/30/94 Time: 82:00 Lab submittal date: 09/30/94 Received by: JV

CLIENT CODE: 7124 Tracking number: 65870 Waste Mame: SOIL Time: 14:09 Validated by: CR

Parameter: RCI CHARACTERISTICS Method reference: SW 846 Result: see below Date started: 10/03/94

Date finished: 10/03/94 Analyst: AZ

Unit:

Parameter: TCLP METALS -- RCRA/MONR LIST Method reference: 8W845 6010 Unit: MG/L

Result: see below

Date started: 10/04/94

Time started:

Time started:

Date finished: 10/04/94 Analyst: A3

Parameter: TCLP ZHE CONSTITUENTS Method reference: SW8468010-20 Result: see below

Date started: 10/03/94

Time started:

Unit: MG/L

Date finished: 10/03/94 Analyst: KMD

Parameter: BASE NEUTRAL ACID EXTRACTIBLES

Mathod reference: SW8468040/90

Result: see below

Date started: 10/04/94

Time started:

Unit: MG/L

Date finished: 10/04/94 Analyst: KMD

Parameter: total organic carbon/halides

Method reference: SW846 9020

Result: see below

Date started: 10/04/94

Time started:

Unit: PPM

Date finished: 10/04/94

Analyst: KMD

eepivaes .dbet etam 84:81 UHT 48-51-100

Waste Technology Services Sample I.D. AA01052 (continued)
Page: 2
October 4, 1994

Parameter: TOTAL PCB
Method reference: SW846 8080
Result: see below
Date started: 10/03/94

Time started:

. . . .

Unit: MG/KG

Date finished: 10/03/34 Analyst: KMD

Data for RCI CHARACTERISTICS :

Component Hamo	Result	Component HDL
COROSIVITY	7.608	0.01
Flashpoint	>140	1 DEG E
CYANIDE, TOTAL	<0.5	0.50
SULFIDE, REACTIVE	<100	1

Data for TCLP METALS -- RCRA/MDNR LIST MG/L:

Component Name ARSENIC	Result 0.22	Component HDL
BARIUM	16	1.2
CADMIUM	0.02	0.69
CHROMIUM	0.05	0.19
LEAD	0.09	0.37
MERCURY	<0.02	0.205
SELENIUM	0.13	0.82
SILVER COPPER	0.01	0.43
	0.14	0.01
ZINC	0.90	2.61
NICKEL	0.26	5.0

Data for TCLP ZHE CONSTITUENTS MG/L:

Data for BASE NEUTRAL ACID EXTRACTIBLES MG/L:

Component name	Result	Component MDL
1,4-Dichlorobenzene 2,4- Dintrotoluene	below rep lims	0.50
Hexachlorobensene	below rep lims below rep lims	

. 70.9 zebivnes .dbet etabu et: 8: UHT 46-81-100

Waste Technology Services Sample I.D. AA01052 (continued) Page: 3 October 4, 1994

Data for BASE NEUTRAL ACID EXTRACTIBLES (continued):

Component Name Hexachlorosthans Nitrobenzene Pyridine Hexachlorobutadiene o-Cresol m-Cresol p-Cresol Cresol Pentachlorophenol 2.4.5-Trichlorophenol	Result below rep lims	0.50 1.0 0.50 3.4 5.6 5.6 5.6
Pentachlorophenol 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	below rep lims below rep lims below rep lims	7.4

Data for total organic carbon/halides PPM:

Component Name TOTAL ORGANIC CARBON TOTAL ORGANIC HALIDES	Result 65,000 <100	Component MDL 100 100
	-100	# V V

Data for TOTAL PCB MG/KG;

Component Name AROCLOR 1016 AROCLOR 1221 AROCLOR 1232 AROCLOR 1242 AROCLOR 1248 AROCLOR 1254 AROCLOR 1254 AROCLOR 1260 TOTAL PORS	Result below det lims	1.0 1.0 1.0 1.0
TOTAL PCBS	below det lims	1.0

If there are any questions regarding this data, please call.

CHARLES E. ROBERTS

QA/QC OFFICER

BELINDA PERO LAB MANAGER

aa:ai uht **46-51-100**

ENVOTECH.

GENERATOR WASTE CHARACTERIZATION REPORT

MANAGEMENT	COMPAGE	ING
MANAGEMENT	BEHNIOEN,	*

MANAGEMENT SERVICES, INC.	TL/V "U00809 .
An original report form must be completed for each sep is this a . New Waste for Approval? Or	at M
Complete all sections of this report, attach laboratory to SAMPLE of this waste to the facility. Waste loads will napproval letter and 2.) the customer has signed and return	ned the quotation agreement.
A CONTRACTOR OF THE STANDARD	DISEOSAGISTIEGOVERYANEEOS
This waste approval request is being submitted for (ohe	ck all that apply):
☐ TREATMENT Michigan Disposal, Inc. 49350 N. I-94 Service Drive Belleville, MI 48111 ATTN: Technical Review	Hazardous and non-hazardous waste stabilization of solids, semi-acids sturries and liquids, inorganic waste treatment to SDAT standards. Customer Service: (313) 599-7120
Michigan Recovery Systems, 36345 Van Born Road Romulus, MI 49174 ATTN: Technical Review	NG Inc. Hazardous and non-hazardous waste solvent recovery, recycling, and fuel blending. Containerized and bulk waste handling. Technology is SDAT for many organic wastes. Customer Service: (313) 326-3100
Wayne Disposal, Inc. Wayne Disposal, Inc. 49350 N. I-94 Service Drive Belleville, MI 48111 ATTN: Technical Review	Secure hezardous and non-hazardous waste landfill services. Containerized and bulk waste management. Customer Service: (313) 697-7830
	ORFAGIED VEINEDRIMANION
Generator Name Strippit, Inc.	S.I.C. Codes*
Address 12975 Clarence Center Road Akron State NY Zip 14001 Contact Robert Johnson	Telephone (716) 542-4511 Fax (716) 542-3957 Telephone () Fax ()
Alternate	(a) (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c
Customer Waste Technology Services. Inc. Address 640 Park Place	Has an account been opened? Yes II No II If Yes, Account #583
Niagara Falls State NY Zip 14301 Contact T. L. Rebrich	Telephone (716) 282-4100 Fax (716) 282-6986
्राह्म । ज्यानिक स्थापन के जिल्ला क	Van YMMJEINEE STATE OF THE TOTAL TOT
A sample bearing this label must accompany this report to the approval review process. Complete this label and attance REPRESENTATIVE ONE-PINT SAMPLE of the waste.	initiate Chito a Waste Common Name: Grinding Solida
Record the date and name of person sampling:	Generator Site Name:
Sampling completed by Ray Kampff - Day Engine	Strippit, Inc. ering Sample Collected By:
Date sample collected September 12, 1994	Ray Kampff - Day Engineering
Date sample and form sent	Date Collected: 7#: September 12, 1994 066869

te: a. Read b. Shoot c. Explosed an Envoted Mode: B. Follows per W. tal Volume per W. tal Volume ping Name* ass* or more generated for more gener	k Sensitive? sive? h Managemer ulk Liquid sek To Be II scal description scilid characteristic aled with this characteristic 4.9 II 5.8 coint <140°F, <90°F II 5.8 coint <140°F, AGE(S) SHO	Yes Tyes The Services on Servi	Yes U Ves U Ve	No What was a to the state of t	d. Py d. Py d. Ox f. Ra (313) 697. Dru per Mon Only Vo NA #* GERRA Sludge (r Liquid (m) Describ 1. Z Quid (m) Describ 1. Z ARDO ARDO	rophoric? didizer? dioactive? 7830 before the	Yes Yes Yes Yes Yes Yes Yes Yes Other Othe	A SW-84 A S	6º Method thed 9095 thed 1010
act an Envoted Mode: M	h Managemer ulk Liquid eek	on(s) for king on or ibs/c 90-140°F provide T 90-140°F FING FB 10 SP 10 S	Yes U Ves U ubic yard 0-12.4 U 00 and \ 00 CESS 19 WTS	No N	per Mone Only Vo	ith lume 3-5 lume 3-5 lume 3-5 lumpable) ulti phase) luti phase) le specialist control lumpable lumpab	drums of the second of the sec	A SW-84 A S	6º Method thed 9095 thed 1010
or more general points of more general points (it Fiash Fias	seral description Solid	on(s) for line on (s) for line of los/c waste? on or los/c solidate provide T provid	Yes Dubic yard Octand Vocand V	No N	Sludge (r Liquid (pr Liquid (m Describ 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	non pumpal umpable) ulti phase) e spec th lab result F (attact sults.)	USEP USEP Citic gravity (a) Mi th lab result	A SW-84 A S	6º Method thed 9095 thed 1010
or more general powders of more general powders of the second powd	ral description Solid side scribe) — characteristic standard with this lbs/gallo 4.9	on(s) for kinds for kinds for the control of the co	Yes U Ves U ubic yard 0-12.4 U 00 and \ 00 CESS 19 WTS	No N	Sludge (r Liquid (pr Liquid (m Describ 1:2 D (attac 200° hytical res	inon pumpal umpable) ulti phase) e spec h lab result f [] (attact sults.)	USEP Diffic gravity (a)	athod 904 (s) Med	thed 9095 10 or 9046 thed 1010 ROVIDED.
Fowder, Other Sc Soils Debrie (c waste have a cription*: Liquids associate - Liquid: (if Fiash F	describe) characteristic aled with this lbs/gallo 4.9	on(s) for li	Yes U Yes U Ubic yard 0-12.4 U 140.0 C and \ OCESS 19 WTS	No N	Sludge (r Liquid (pr Liquid (m Describ 1.2 1.2 1.2 200° lytical res	e special (attack	USEP Diffic gravity (a)	athod 904 (s) Med	thed 9095 10 or 9046 thed 1010
Fowder, Other Sc Soils Debrie (c waste have a cription*: Liquids associate - Liquid: (if Fiash F	describe) describe) characteristic aled with this lbs/gallo 4.9	waste? on or lbs/c sol-140°F provide T po-140°F provide T sol-140°F mg Sol-140°F wing PR	Yes Dubic yard D-12.4 D 140.0 C and \ OC ESSis WTS	No ⊠ s or > 12.5 -200°F □ VOC and 0°F ⊠ # 8664	Liquid (or Liquid (m Describ 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Impable) ulti phase) e spec h lab result f [] (attact tults.)	USEP Diffic gravity (a)	athod 904 (s) Med	thed 9095 10 or 9046 thed 1010 ROVIDED.
waste have a cription*! -iquids associate - Liquid: (If Fiash Fi	characteristic aled with this bs/galic -4.9 5.8 <90°F 5 coint <140°F, <90°F 8 coint <140°F,	waste? on or ibs/c 0.9 10 0.140°F provide T 0.140°F KNG:ER ng Solid es) genera	Yes Dubic yard 7-12.4 D 140- 0C and \ 0 > 140- 0C ESS 19 WTS	No ⊠ s or > >12.5 -200°F	1.2 D (attact >200° alytical res	specth lab result of (attack tuits.)	USEP Dilic gravity ta)	athod 904 (s) Med	thed 9095 10 or 9046 thed 1010 ROVIDED.
cription": -iquids associate - Liquid: (If Flash Flash Flash Flore) - Solid: mmon Name - description of Appril ONAL Flore)	Aled with this bs/gallo 4.9 5.8 <90°F 5 <90°F 6 GENERAL Grindin the process (1) AGE(S) SHO	waste? on or ibs/c 0.9 10 0.140°F provide T 0.140°F KNG:ER ng Solid es) genera	Yes Dubic yard 7-12.4 D 140- 0C and \ 0 > 140- 0C ESS 19 WTS	No ⊠ s or > >12.5 -200°F	1.2 D (attact >200° alytical res	specth lab result of (attack tuits.)	USEP Dilic gravity ta)	athod 904 (s) Med	thed 9095 10 or 9045 thed 1010 ROVIDED.
t: - Liquid:* (If Flash F. Solid:* STIONS/INTERPORTIONAL F. SOLIDAL F. SOLIDA	<pre><pre><pre><pre><pre><pre>coint <140°F, <pre><pre><pre><pre><pre><pre><pre>GENERAT</pre> Grinding the process(color)</pre> AGE(S) SHO</pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	90-140°F provide T 90-140°F FING FR ng Solid es) general	OCESS WISH	200°F D VOG and O'F 23 # 8664	>200° alytical res	F () (attaction)	ASTERION ME	STIC(S)	thod 1010
it: - Liquid:* (If Flash F - Solid:* ELIONS/III mmon Name . description of	<pre><pre><pre><pre>coint <140°F, <pre><pre><pre><pre><pre><pre><pre>CENERAT Grinding the process() AGE(S) SHO</pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	provide T 90-140°F I FING FR ng Solid es) general	OC and \ >146	VOC and	ARDO	USKOFIAR	VAGTEE()	SITIC(S)	ROVIDED.
mmon Name . description of ADDMIONAL F	Grindiz the process(i AG E(S) SHO	es) genera WING PR	allog this	waste: L	A DETAIL	ED EXPLAI	NATION ML	ST BE P	ROVIDED.
mmon Name . description of ADDMIONAL F	Grindiz the process(i AG E(S) SHO	es) genera WING PR	allog this	waste: L	A DETAIL	ED EXPLAI	NATION ML	ST BE P	ROVIDED.
ation of dr			173			MAREINE	-5 IF MAGE		,
	OM9 14 OT	0 183011	<u></u>						
n lab analyses		vledge of L	he proces	59(69) ge	nerating t Minit 40	HUME	iescribe the Ma	composi ximum 60	tion of the
ase coolen	ţ				10		10	20 30	— % — %
P . A102	, 5102						19	20 100	~~ %
n BCSA Hez	irdous Wasil	s Regulatio	ons (40 C	CFA 261)	and Mici	nigan Act 6	4 Rules:		
his wa st e m e c	et any Filistin	g descript	ion?	4444191444	813147172488814		160		ODE\$
his wa ste me e his wa ste mee	it any Pilisiin it any Uilisiin	ig descript ig descript v2 (ettech	Shoil livest dat	 	# # # # # # # # # # # # # # # # # # #	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
his wa ste e xh his waste exh	ibit Corresivity ibit Reactivity	ly? (attach /? (attach lai /attach lai	i lab resul lab (esull b resulla)	R4, (Ell.		F.A. (1941) 1570 			
his waste lead his waste lead	th Copper > 1 th Zinc > 500 loss the wast	100ppm? ()ppm? (atti ta excaed	ach lab re ach lab re anv land	resuks (etiuse Disoosa	i residictio	n treatmen	t	_	29t
) for the applic	iabie codesy iouid waste r	r (attach ii regulated i	ao resuic Nichia	an Act 1	367*				29L
	n RCRA Haza his waste mee his waste mee his waste mee his waste exhi	re. A10z. S10z n RCRA Hazardous Wastens waste meet any Filstin his waste meet any Filstin his waste meet any U itsur his waste meet any U itsur his waste exhibit Ignitabilit his waste exhibit Corrosivi his waste exhibit Reactivity his waste exhibit Toxicity? his waste leach Copper > his waste leach Zinc > 600 ous wastes, does the waste leach zinc > 600 ous wastes, does the waste leach zinc > 600 ous wastes, does the waste leach zinc > 600 ous wastes, does the waste leach zinc > 600 ous wastes, does the waste leach zinc > 600 ous wastes, does the waste leach zinc > 600 ous wastes.	re. A10z. 510z n RCRA Hazardous Waste Regulation his waste meet any Filiating descriptions waste meet any Filiating descriptions waste meet any Piliating descriptions waste meet any Piliating descriptions waste exhibit Ignitability? (attach his waste exhibit Corresivity? (attach his waste exhibit Reactivity? (attach his waste exhibit Toxicity? (attach his waste exhibit Toxicity? (attach his waste leach Copper > 100ppm? (attach waste leach Zinc > 500ppm? (attach line waste, does the waste exceed for the applicable codes?" (attach line waste)	re. A10z. 510z n RCRA Hazardous Waste Regulations (40 Chile waste meet any Filsting description? his waste meet any Kitating description? his waste meet any Pilsting description? his waste meet any Uilsting description? his waste exhibit Ignitability? (attach lab results) waste exhibit Corresivity? (attach lab results) waste exhibit Reactivity? (attach lab results) his waste exhibit Toxicity? (attach lab results) his waste exhibit Toxicity? (attach lab results) his waste leach Copper > 100ppm? (attach lab results) waste leach Zinc > 500ppm? (attach lab results) for the applicable codes?" (attach lab results) for the applicable codes?" (attach lab results)	re. A10z. 510z n RCRA Hazardous Waste Regulations (40 CFR 261) his waste meet any Filsting description? his waste meet any Pilsting description? his waste meet any Pilsting description? his waste meet any Ulfsting description? his waste exhibit Ignitability? (attach lab results) his waste exhibit Corresivity? (attach lab results) his waste exhibit Reactivity? (attach lab results) his waste exhibit Toxicity? (attach lab results) his waste leach Copper > 100ppm? (attach lab results) his waste leach Zinc > 500ppm? (attach lab results) ous wastes, does the waste exceed any land Disposa of the applicable codes?" (attach lab results)	re. A10z. 510z 10 10 10 10 10 10 10 10 10	re. A10z, 510x 10 Te. A10z, 510x 10 In RCRA Hazardous Waste Regulations (40 CFR 261) and Michigan Act 6 his waste meet any Filsting description? This waste meet any Pilsting description? This waste meet any Pilsting description? This waste meet any U listing description? This waste exhibit Ignitability? (attach lab results) This waste exhibit Corresivity? (attach lab results) This waste exhibit Reactivity? (attach lab results) This waste exhibit Toxicity? (attach lab results) This waste exhibit Toxicity? (attach lab results) This waste leach Copper > 100ppm? (attach lab results) This waste leach Zinc > 500ppm? (attach lab results) This waste leach Zinc > 500ppm? (attach lab results) This waste leach Zinc > 500ppm? (attach lab results) This waste specification codes?* (attach lab results)	Te. A102, 5102 10 10 10 10 10 10 10 10 10	Fe, A10z, Si0z 10 10 10 10 20 10 10 20 10 10

Only for Michigan Reco Water (%)	overy Systems, Inc. wastes. Solids (? Chlorine	perform all of the %)	PGBs (total ppm) -	
Enclose lab reports for	F001 - F005 solvent scan a			
1. Does the waste co 2. Does the waste co 3. Does this waste co 4. Is this a dioxin/fura numbers F020, F0: 5. Is this a California in Appendix iii of 4 6. Is this a liquid hazs 7. Mark the 'Yes' colo	ntain cyanide amenable to contain reactive suifide above intain PCBs greater than 49 in waste as specified in 40 C21, F022, F023, F026, F027, list hazardous waste contain CFR Part 268 in total containing Nickern to indicate which TCLP	chiednation above 500 ppm?* ppm?* PFR 261.31 under F028? ning halogenated centration greater kel (>134 mg/L) of testing has been	250 ppm?* Hazardous Waste organic compounds found than or equal to 1,000 mg/L? Thallium (>130 mg/L)? conducted. (attach	
For those constitut Either "Yes" of "No	nis not tested, mark "No" ar " MUST be checked for each TCLP REGULATORY ACTION LEVELS	n and every const CONST	ituent. ITUENT TESTING CONDUCT ITIFICATION	ED
ZHE ORGANICS* D018 Benzens D019 Carbon Tetri D021 Chloroform D022 Chloroform D028 1,2-Dichlorof D029 1,1-Dichlorof D038 Methyl Ethyl D039 Tetrachioroe D040 Trichloroethy D043 Vinyl Chlorid	ne 100.0 6.0 9thane 0.5 9thylene 0.7 Ketone 200.0 thylene 0.7 Iene 0.5		NO CERTIFICATION 图 'Based upon my k 図 waste and the prod the waste, these cont present in the v 图 hazardous classific 図 Signed X (cess generating onstituents are waste above cation levels.*
METALS* D004 Arsenic D005 Barlum D006 Cadmium D007 Chromium D008 Lead D009 Mercury D010 Selenium D011 Silver 0010 Copper	5.0 100.0 1.0 5.0 5.0 0.2 1.0 6.0 100.0 500.0	000000000	CERTIFICATION "Based upon my ki waste and the prod the waste, these co not present in the y hazardous classific Signed C	ess generaling enstituents are vaste above
ACID EXTRACTAB D023 0-Cresol ⁴⁴ D024 m-Cresol ⁴⁴ D025 p-Cresol ⁴⁴ D026 Cresol D037 Pentachlerop D041 2,4,5-Trichlor D042 2,4,6-Trichlor	200.0 200.0 200.0 200.0 henol 100.0 ophenol 400.0	ممموممم	CERTIFICATION Based upon my kn waste and the proc the waste, these co not present in the w hazardous classific Signed XTEX	esà generating Instituents àre Inste above

^{*}Zaa pul jūstrucijūs ou šečatāje speet

Rea full instructions on separate sheet. Frinted on Recycled Paper

Form 911 (11-91)

From: ENVOTECH MANAGEMENT SERVICES, INC.

ANALYTICAL LABORATORY

49350 N. 1-94 SERVICE DRIVE

BELLEVILLE, MI. 48111

September 26, 1994

Waste Technology Services To!

640 Park Place

Niagara Falls, NY 14301

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA00984

Purchase order number: VERHAL Generator name: Strippit

Sample collection date: 09/21/94 Time: 01:50 Lab submittal date: 09/21/94

Received by: JV

CLIENT CODE: 7124

Tracking number: 66869 Waste Name: GRINDING SLDS

Time: 13:55

Validated by: CR

Parameter: RCI CHARACTERISTICS

Method reference: SW 846

Result: see below

Date started: 09/22/94

Time started:

Units

Date finished: 09/22/94

Analyst: JC

Parameter: TCLP METALS--RCRA/MDNR LIST

Method reference: SW846 6010

Result: see below

Date started: 09/26/94

Time started:

Unit: MG/L

Date finished: 09/26/94

Analyst: AZ

Parameter: TCLP ZHE CONSTITUENTS

Method reference: SW8468010-20

Result: see below

Date started: 09/23/94

Time started:

Unit: MG/L

Date finished: 09/23/94

Analyst: KMD

Parameter: TOTAL PCB

Method reference: SW846 8080

Result: see below

Date started: 09/23/94

Time started:

Unit: MG/KG

Date finished: 09/23/94

Analyst: KMD

Data for RCI CHARACTERISTICS :

Component Name Result Component MUL COROSIVITY 7.639 0.01 PLASEPOINT >140 1 DEG 2

CYANIDE, TOTAL <0.5 0.50 SULFIDE, REACTIVE <100 1

. Abel etsch 48:54 Waste Tech. ≘ ਾ ਰ ಜಕರ i V ಗಕ8

Waste Technology Services Sample I.B. AA00984 (continued) Page: 2 September 26, 1994

Data for TCLP METALS -- RCRA/NDNR LIST MG/L:

Component Name	Result	Component MDL
ARSENIC	0.08	1.4
BARIUM	10	1.2
CADMIUM	0.02	0.69
CHROMIUM	0.19	0.19
LEAD	0.09	0.37
MERCURY	<0.02	0.205
Selenium	0.16	0.82
SILVER	Less than	0.43
COPPER	0.08	0.01
ZINC	1.8	2.61
NICKEL	Less than	5.0

Data for TCLP ZHE CONSTITUENTS MG/L:

Component Name	Result	Component MDL
1,4-diceloreenzene	BELOW DET LIMS	
MEK	BELOW DET LIMS	0.1
CHLOROFORM	BELOW DET LIMS	0.1
BENZENE	BELOW DET LIMS	0.1
CARBON TETRACHLORIDE	BELOW DET LIMS	•
1,2-DICELOROETHANE	BELOW DET LIMS	•
1,1-diceloroethylene	BELOW DET LIMS	
VINYL CHLORIDE	BELOW DET LIMS	0.1
TRICELOROETEYLENE	BELOW DET LIMS	0.09
TETRACHLOROETHYLENE	BELOW DET LIMS	0.05
CHLOROBENZENE	BELOW DET LIMS	0.05

Data for TOTAL PCB MG/KG:

Component Name	Result	Component MDL
AROCLOR 1016	BELOW DET LIMS	
AROCLOR 1221	BELOW DET LIMS	
AROCLOR 1232	BELOW DET LIMS	1.0
AROCLOR 1242	BELOW DET LIMS	1.0
AROCLOR 1248	BELOW DET LIMS	
AROCLOR 1254	BELOW DET LIMS	1.0
AROCLOR 1260	BELOW DET LIMS	1.0
TOTAL PCBS	BELOW DET LIMS	1.0

If there are any questions regarding this data, please call.

CHARLES B. ROBERTS

QA/QC OFFICER

BELINDA PERO LAB MANAGER

ENVOTECH.

GENERATOR WASTE CHARACTERIZATION REPORT

MANAGEMENT SERVICES, INC.

· See full instructions on segarate sheet.

TLN

T# 066868

Form 911 (11-91)

#6-£1-100

An original report form must be completed for each separate	waste stream. Do not submit copies. Wiss 8663
An original report form that he had a serious Approval? Is this a Panew Waste for Approval? Previous Approval if a complete all sections of this report, attach laboratory reports SAMPLE of this waste to the facility. Waste loads will not be approval letter and 2.) the customer has signed and returned the sections of the customer has signed and returned the sections.	required and send with a REPRESENTATIVE ONE-PIN
Approval letter and 2.7 in February and 2.5 in	PARTICIPATION OF THE PROPERTY
This waste approval request is being submitted for (check all	that apply):
TREATMENT Michigan Disposal, Inc. 49350 N. I-94 Service Drive Belleville, Mi 48111 ATTN: Tachnical Review	Hazardous and non-hazardous waste stabilization of solids, semi-solids sturries and liquids. Inorganic waste treatment to BDAT standards. Customer Service: (313) 699-7120
Michigan Recovery Systems, Inc. 36345 Van Born Road Romulus, MI 48174 ATTN: Technical Review	Hazardous and non-hazardous waste solvent recovery, recycling, and fuel blending. Containerized and bulk waste handling. Technology is BOAT for many organic wastes. Customer Service: (313) 326-3100
U LANDFILL Wayne Disposal, inc. 49350 N. I-84 Service Drive Belleville, MI 48111 ATTN: Technical Review	Secure hazardous and non-hazardous waste landfill services. Containerized and bulk waste management. Customer Service: (313) 897-7830
STEEL STATE OF THE PROPERTY AND AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERT	EXOLDRAWINEDERNATION # # F F F F F F F F F F F F F F F
Generalor NameStrippit, Inc.	5.1.O. Codes*
Address 12975 Clarence Center Road Akron State NY Zip 14001 Contact Robert Johnson Alternate	Telephone (716) 542-4511 Fax (716) 542-5957 Fax ()
TELEVISION EN LE LONGIA MENIVOIR	Neal Nac Wittel
Customer Waste Technology Services. Inc. Address 640 Perk Place Niceara Falls State NY Zip 14301	Has an account been opened? Yes W No Life Yes, Account #
Contact T. L. Nebrich	[elephone (716) 287-4100 Fax (716) 282-6986
A sample bearing this label must accompany this report to initial the approval review process. Complete this label and attach is REPRESENTATIVE ONE-PINT SAMPLE of the waste.	ale '
Record the date and name of parson sampling:	Generator Site Name: Strippit, Inc.
Sampling completed by Ray Kampff - Day Engineer	ing Sample Collected By:
Date sample collected September 12, 1994	RAY Kampre - Day Engineering
Date sample and form sent	Date Collected: T#: September 12, 1994 066868

Printed on Recycled Paper

16:55

UHT

-035	THE SECTION WESTERN GRAND HAN	MROBALEDAM	440/2	A No.
	No Si	d. Pyrophone	T ES 🛀	No 🗵
5.	b Shock Sensitive? Yes \(\Delta\) No \(\Delta\)	e. Oxidizer?	Yes 🖸	No 🖾
	c. Explosive? Yes \(\sigma\) No \(\sigma\)	f. Radioactive	re completing this	loom.
	The standard Employer Management Services Representative a	(313) 697-7830 Bere	Olhar 🗖	, Marcin
2,	Shipping Mode: Buix Liquid Li			
	Chloring Volume nor Wask	e Only Volume	1-3 drums ove	rpacked
4.	Annual Total Volume	ie Otry Voidillo		•
5.	Annual Total Volume To Be Determined UN	/NA #*		
	114.44.4			
		VOLEBEN/SE		TO THE PERSON NAMED IN COLUMN
12455	Select one or more general description(s) for the waste at 70°F			
1 1.	Powdery Soild			
ļ	Other Solid*	Liquid (pumpable)	_	
	Soils	Liquid (multi phase	s) 	
	Debris (describe)	Describe		
2.	Does the waste have a characteristic odor?" Yes LI No La	nescupa		
3.	Color Description":		USEPA SW	-846* Method
	· · · · · · · · · · · · · · · · · · ·			Method 9095
4,	Are Free Liquids associated with this waste? Yes Li No 22 Density:	>1.2 20	ecilic gravity	
5 .	Density: Ibs/gallon or ibs/cubic yards of Density: Ibs/gallon or	s 🗀 (attach lab res	ults) (allu	9040 or 9045
5.	-507	L >240 F HJ 1911	ach lab results)	Method 1010
7.	(If Flash Point <140'F, provide TOC and VOC an	elylical results.)		
	6.00 ADOS F 90.140°F L >140°F W			
75.20 75.20	FIGURE FOR THE PROPERTY OF THE	FARDOUS CHA	FACTERISTIC	(SIVE EX
3.01	MARRIED A MARRIED AND INC.	, ,,,,,,		
٦,	AASSE COUNTY OF THE PROPERTY O	A DETAIL BO EXPL	ANATION MUST B	E PROVIDED.
2.	Provide a description of the process(es) generating (his waster ATTACH ADDITIONAL PAGE(S) SHOWING PROCESS FLOW D	AGRAM AND DETA	ils if necessaf	(Y)
Ĺ				
	Excavation of drums in an old landfill			
Ļ		tica the waste	describe the com	position of the
3.	Based upon lab analyses and/or knowledge of the process(es) g	Minimum Minimum Minimum	Maximu	m
	Waste: Reat salts (assume Barium Salta)	40	to 60	——— %
	Scale, Fa oxide	10	10 20	%
	Soil Soil	10	10 30	 %
	Koisture	20	_ to	······································
	TOTAL:			100 %
		() and Michigan Act	64 Aules:	
4.	Based upon RCRA Hazardous Wasts Regulations (40 CFA 26	I win ministration	YES NO	CODES
	a. Does this waste meet any Filsting description?			
			🗀 💆	1
			<u>.</u> 🖾 '	
	d. Does this waste meet any U listing description?	£1885881#36##################################	<u>.</u>	
ŀ	d. Does this waste meet any U listing description? e. Does this waste exhibit ignitability? (attach lab results) f. Does this waste exhibit Corrosivity? (attach lab results)	he Datermined	H	
	1. Does this waste exhibit Corrosivity? (attach lab results)			
	g. Does this waste exhibit Corrosistry? (attach lab results)	44070401418844306748145458454		0005
Ì				
	l. Does this waste leach Copper > 100ppm; (attach isb results).			
			ent	000
5.				D005
А			□	The second secon
Art	is this a non-hazardous liquid waste regulated by midnigan Act ach analytical results for all LOR constituents of concern for was	le codes identified in	1 Kem 4 (above).	
	the contract of the contract o	· · · · · · · · · · · · · · · · · · ·		

Saa full instructions on superate sheet.

Section 1	REGENTA	ION/A SOYO	UNGE	ELEGENDING:		
Only for Michigan Recovery Systems Water (%)	, Inc. wastes, pe Solids (%)	erform all of the f	oliowing a He PC	nalyses: at value (BTU/lb) :Bs (total ppm)	· · · · · · · · · · · · · · · · · · ·	
Sulfur (%) Enclose lab reports for F001 - F005	olyeni scan and	TCLP metals:*	As	h (%)	***************************************	
Encides 180 reports to	WEST-NO.	KARCERTIE	ATIONS			
1. Does the waste contain cyanide					Yes	इछाडाइ.
2. Does this waste contain PCBs 2	realer than 49 pt	om?*	Manardau	e Wasie	<u> </u>	
A lethis a dioxin/furan waste as ap	SCHOOL TO A	0000	D\$5\$14AA	3 44 2 2 4		☆
numbers F020, F021, F022, F02	3, (020,) 04.)	balancanded	erganic co	mpounds found	-	រាត់
In Appendix III of 40 Orn Part 2: 6. Is this a liquid hazardous waste 7. Mark the "Yes" column to indical	containing Nicke which TCLP to	i (>134 mg/L) or sling has been	Thaillum conducted	(>130 mg/L)? . (attach		iğ Çi
lab results*) For those constituents not tested Either "Yes" or "No" MUST be of	Limark "No" and	l sign the certific and every const	ation prov ituent.	ide d.	en.	
TOLP REGU	LATORY LEVELS	CONST	TUENT T			
ZHE ORGANICS* D018 Benzene D019 Carbon Tetrachiorids D021 Chlorobenzene D022 Chloroform D028 1,2-Dichloroethane D029 1,1-Dichloroethylane D035 Methyl Ethyl Ketone D039 Tetrachloroethylane D040 Trichloroethylane D041 Vinyl Chloride	mg./L 0.5 0.0 0.0 5.0 0.7 200.0 0.7 0.5 0.2	\$ \$ \$	នួមនៅមានមាននេះ	CERTIFICATION Based upon my k waste and the pro- the waste, these c not present in the hazardous classific Signed X	çess <u>B</u> anı onalituen waste abı	eratiog is are
METALS* D004 Arsenia D005 Barium D006 Cadmium D007 Chromium D008 Lead D009 Mercury D010 Selenium D011 Bilver 0010 Copper	5.0 100.0 1.0 5.0 5.0 0.2 1.0 5.0 100.0	مممعمممه	0000000000	CERTIFICATION Based upon my k waste and the proc the waste, these c not present in the hazardous classific	ess gene onstituen waste abo	erating Is are
ACID EXTRACTABLES* D023 0-Cresol** D024 m-Cresol** D025 p-Cresol** D026 Cresol D037 Pentachlorophenol D041 2,4,5-Trichlorophenol	200.0 200.0 200.0 200.0 100.0 400.0	0000000	BENEVERS	CERTIFICATION "Based upon my k waste and the proc the waste, these co not present in the hazardous classific Signed X P	ces s g ent onsillueni wasie abt	ove
# If n m and o Cresols cannot be di	fferentialed, use	Total Cresol cor	ncantration	1	(C	continued)

* See full instructions on separate sheet. * 20년 대 등등등기 자신들은 구입음을 등 등학문장에 전원들을 무겁는 점점 보용으로 [프로금음

Turks Musty

From: ENVOTECE MANAGEMENT SERVICES, INC. ANALYTICAL LABORATORY 49350 N. 1-94 SERVICE DRIVE BELLEVILLE, MI. 48111

September 29, 1994

Tot Waste Technology Services 640 Park Place Niagare Falls, NY 14301

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA00986 Purchase order number: VERBAL Generator name: Strippit Sample collection date: 09/21/94 Lab submittal date: 09/21/94 Received by: Jy

CLIENT CODE: 7124 Tracking number: 66868 Waste Name: HEAT TRY SALTS Time: 01:50 Time: 14:00 Validated by: CR

Parameter: RCI CHARACTERISTICS Method reference: SW 846 Result: see below Date started: 09/22/94 Time started:

Unit:

Date finished: 09/22/94 Analyst: JC

Parameter: TCLP METALS--RCRA/MDNR LIST Method reference: SW846 6010 Result: see below Date started: 09/29/94 Time started:

Unit: MG/L

Parameter: TCLP SHE CONSTITUENTS Method reference: SW8468010-20

Date finished: 09/29/94 Analyst: AZ

Result: see below Date started: 09/23/94 Time started:

Unit: MG/L

Date finished: 09/23/94 Analyst: KMD

Parameter: TOTAL PCB Method reference: SW846 8080 Result: see below Date started: 09/23/94 Time started:

Unit: MG/KG

Date finished: 09/23/94 Analyst: KND

Data for RCI CHARACTERISTICS :

Component Name COROSIVITY FLASHPOINT CYANIDE, TOTAL SULFIDE, REACTIVE

Result Component MDL 7.035 0.01 >140 1 DEG P <0.5 0.50 <100

Waste Technology Services Sample I.D. AA00986 (continued)
Page: 2
September 29, 1994

Data for TCLP METALS--RCRA/MDNR LIST MG/L:

Component Name ARSKNIC BARIUM CADMIUM CHROMIUM	Result 0.14 180 <0.01	Component MDI. 1.4 1.2 0.69
LEAD MERCURY	0.19 0.11 <0.02 0.26	0.19 0.37 0.205 0.82
COPPER ZINC NICKEL	<0.01 0.05 0.98 <0.08	0.43 0.01 2.61 5.0

Data for TCLP ZHE CONSTITUENTS MG/L:

Component Name 1,4-DICHLORHENZENE MEK CHLOROFORM BENZENE CARBON TETRACELORIDE 1,2-DICHLOROHTEANE 1,1-DICHLOROHTEANE VINYL CHLORIDE TRICHLOROETHYLENE TETRACHLOROETHYLENE	Result BELOW DET LIMS BELOW DET LIMS	0.1 0.1 0.1 0.1 0.1 0.2 0.1
TETRACHLOROETHYLENE CHLOROBENZENE	BELOW DET LIMS BELOW DET LIMS BELOW DET LIMS	0.09

Data for TOTAL PCB MG/KG:

Component Name	Result	G
AROCLOR 1016		Component MDL
AROCLOR 1221	BELOW DET LIMS	1.0
	BELOW DET LIME	1.0
AROCLOR 1232	RRIAW DEM TIME	1.0
AROCLOR 1242	Below der lins	1.0 {
AROCLOR 1248	erlow det lims	1.0
	BELOW DET LIMS	1.0
AROCLOR 1254		1.0
AROCLOR 1260	BELOW DET LIMS	1.0
TOTAL PCBS	BELOW DET LIMS	1.0
TAINT LADS	Below det lims	1 0

If there are any questions regarding this data, please call.

CHARLES E. ROBERTS
QA/QC OFFICER

erlinda pero Lab Manager

92.9 sepiphes "doete Tech. Services P.28

APPENDIX D

Soils Test Results

Select Fill Material

MALCOLM PIRNIE, INC.

Project..... Day Engineering, P.C.

Project Number.. 2573-00-1

Location..... Strippit Landfill

Sample Number	Moisture Content	Highest Dry Density(1)	Maximum Index Density(2)	Minimum Index Density
*****	%	pcf	pcf	pcf
SAND SAMPLE	1.5	108.3	121.6 @12.0% Moisture Conte	94.2 nt

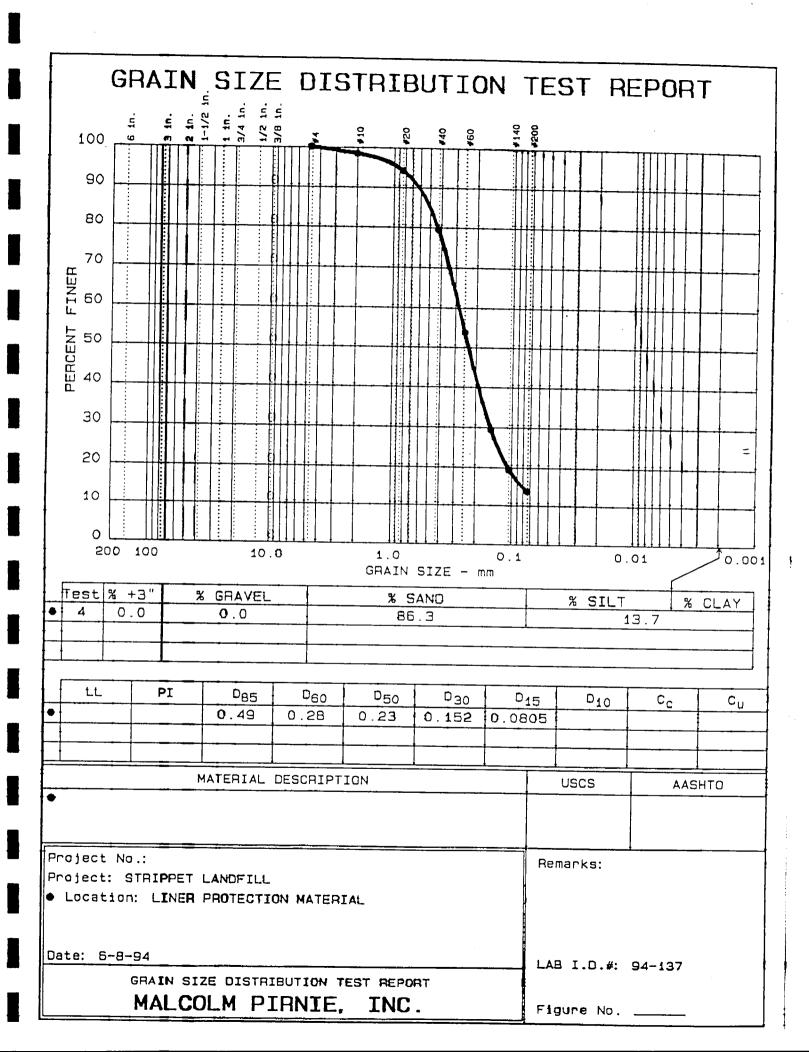
⁽¹⁾ This material did not exhibit a typical moisture-density relationship. The highest density reported was the highest density achieved with the Standard Proctor method (AASHTO T99, Method C)

(2) Maximum Index Density achieved by performing the test in the saturated state.

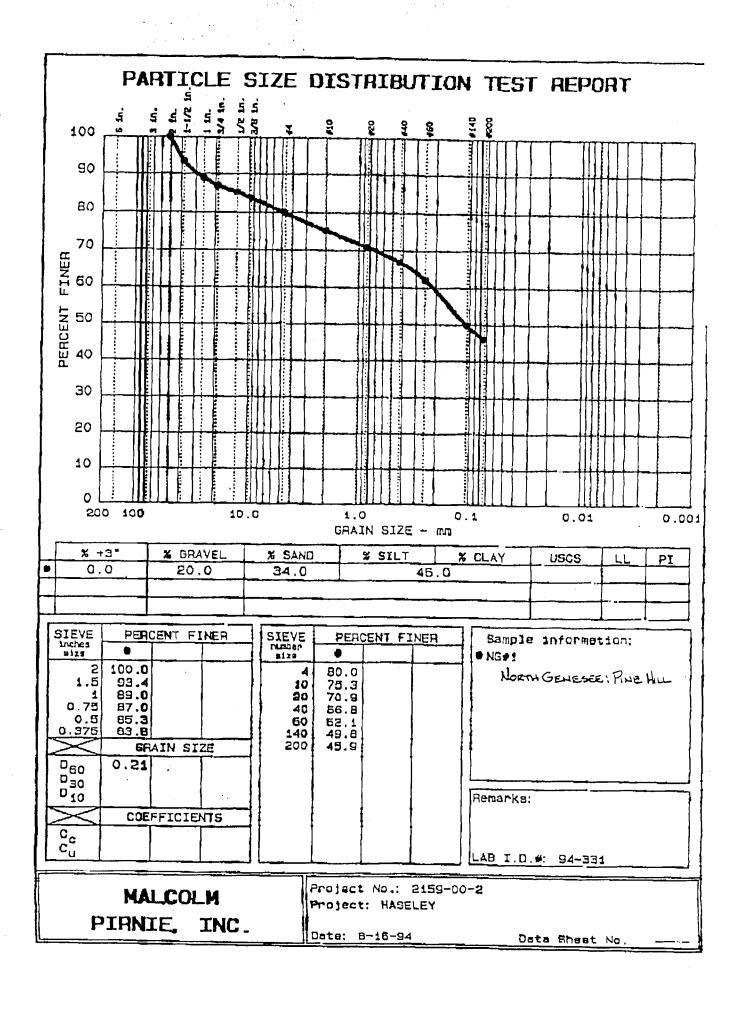
MALCOLM PIRNIE, INC.

Project...... Haseley Consultants/Constructors
Project Number. 2159-00-1
Location..... Strippet Landfill

Sample	Gravel	Sand	Fines %	
Number	%	%		
S-1, Liner	0.0	86.3	13.7	



Barrier Protection Material





Contract Drilling and Testing

1951-1 Hamburg Turnpike Buffalo, NY 14218

P.O. BOX 515 New Holland, PA 17557 Phone: (716) 821-5911 Fax: (716) 821-0163

Phone: (717) 354-7389 Fax: (717) 354-7619

Laboratory Test Report

PROJECT : STRIPPIT LANDFILL CLOSURE

CLIENT : DAY ENGINEERING

DATE: SEPTEMBER 27, 1994 PROJECT NO.: SJB-T272

REPORT NO.: LTR-1

SAMPLE INFORMATION :

Sample No. 94-625 was collected from the project site by SJB Services, Inc. on September 9, 1994. Sample is described as a Sand Material from Pine Hill Sand & Gravel.

ASTM C-136: Method for Sieve Analysis of Fine and Coarse Aggregates

Percent Passing Sieve Size 100.0 211 99.0 1 1/2" 97.7 1" 96.9 3/4" 95.7 1/2" 1/4" 92.9 91.6 #4 #10 89.3 87.5 #20 84.9 #40 70.6 #100 43.1 #200

AASHTO T-99-90 : Moisture-Density Relations of Soils Using a

Meth**o**d B

5.5 lb. Rammer and a 12" Drop Maximum Dry Density: 119.7 pcf

Optimum Moisture : 10.7 %

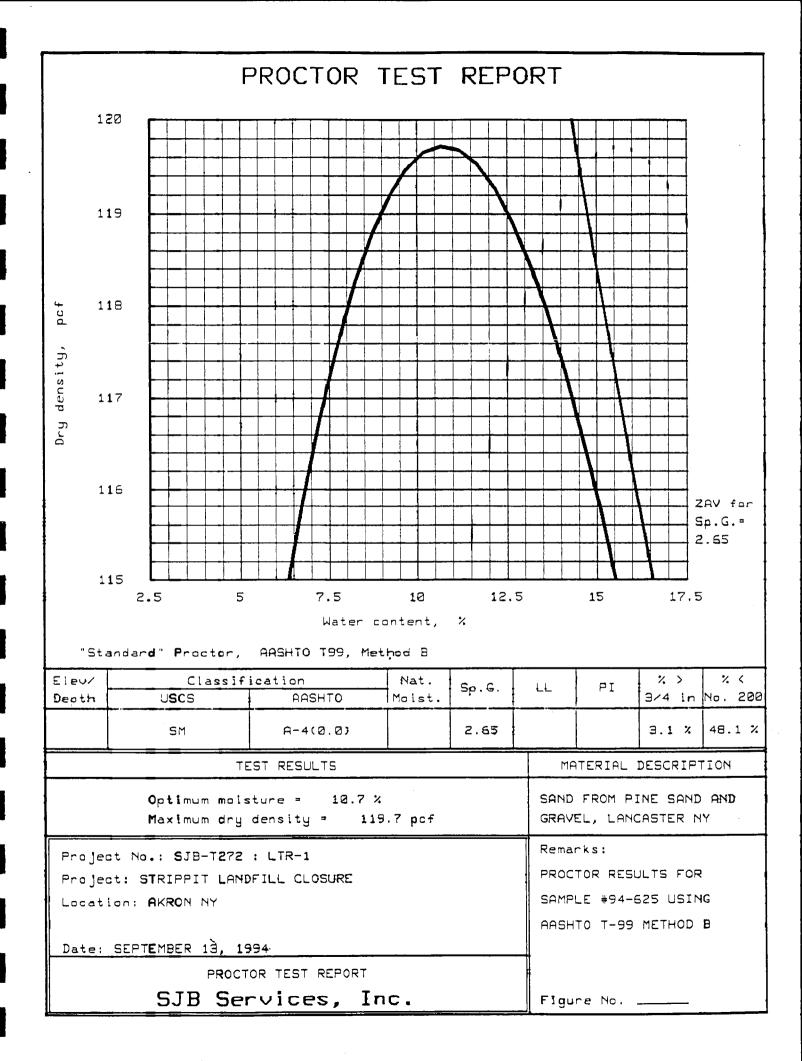
SJB Services, Inc.

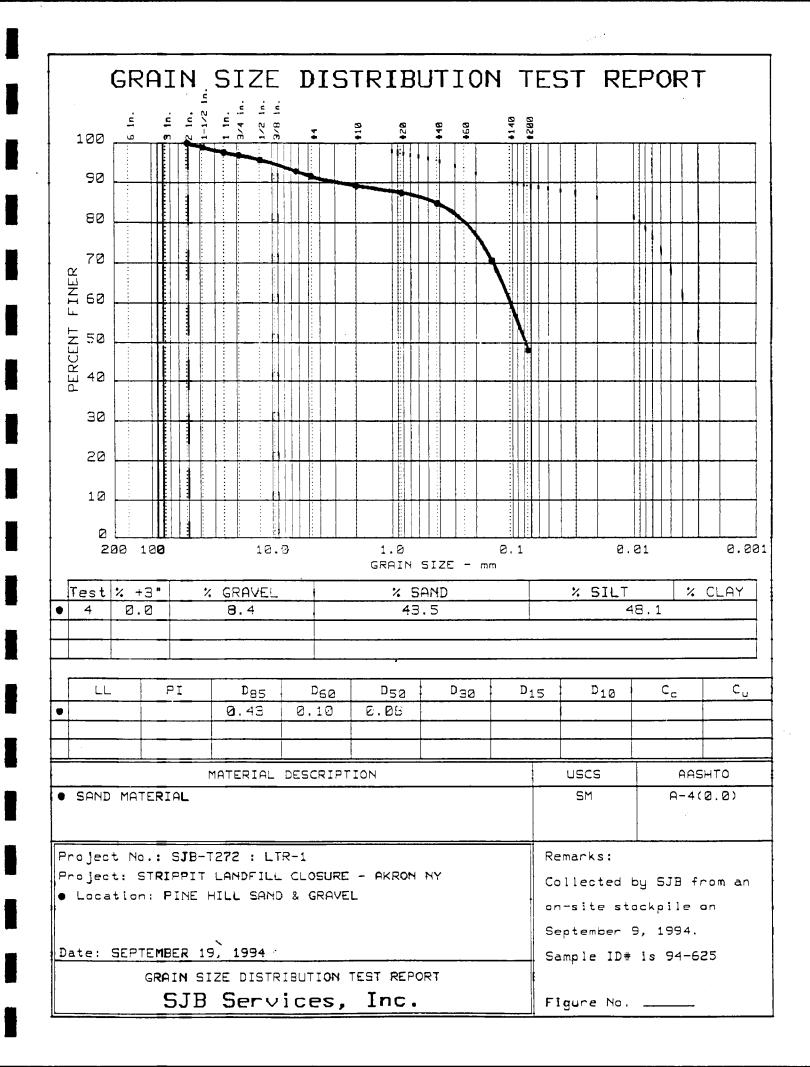
Paul C. Gregorczyk Laboratory Manager Ray J. Kron

Testing Services Manager









Topsoil

MALCOLM PIRNIE, INC.

Project...... Day Engineering, P.C. Project Number. 2573-00-1 Location..... STRIPPIT LANDFILL

Sample Number	На	Org anic Content %	
TH-1	4.9	3.9	

APPENDIX E

Geomembrane Specifications/Certification and Installation Test Results

National Seal Company Quality Control Certifications



Construction Division

167 Anderson Road Cranberry Township, PA 16066-**2901** 412/452-8800 412/452-8880 FAX

August 8, 1994

Mr. Mark Haseley Stippit Industries Rt.93 & Clarence Center Rd Akron, NY 14001

RE: Job # 6782-110

Dear Mr. Haseley:

Enclosed herewith are National Seal Company Quality Control Certifications for the materials delivered to Stippit Industries in Akron, NY.

Sincerely,

Christine Pritts

Enclosures

POLYETHYLENE CERTIFICATE OF ANALYSIS

Customer: Stippit Industries

Resin Type: U.C. 1527

Project Name: Akron, NY

Project Number: 6782-110

We hereby certify that the polyethylene resin for the above identified shipment, meets or exceeds Mational Seal Company's specifications, below. Testing was performed on each resin blend.

Melt flow index was determined according to ASTM D 1238. Density was determined according to ASTM D 1505. Where appropriate, carbon black content was determined according to ASTM 0 1603. The average test results are listed in the table below.

RESIN SPECIFICATIONS

Melt Flow Index

0.5 gram/10 minutes Maximum

Density (with carbon black)

0.94 grams/cm³ Minimum

Carbon Black Content

Illen_

2% to 3% Range

BL EN D	MELT FLOW	DENSITY	CARBON BLACK
NUM BE R	INDEX		CONTENT
15 45	0.22	0.938	0.00

Quality Control Manager

7-26-94

GEOMEMBRANE CERTIFICATE OF ANALYSIS

Customer: Stippit Industries

Number of Rolls Shipped: 5

Project Name: Akron, NY

Nominal Thickness: 40 mil

Project Number: 6782-110

We hereby certify that the polyethylene geomembrane for the above identified shipment meets or exceeds National Seal Company's specifications, below. Testing was performed at the frequency indicated.

The raw polymeric material is first quality polyethylene resin containing no more than two percent clean reworked plastic by weight. Thickness was measured according to ASTM D 5199. Tensile properties were determined in accordance with ASTM D 638, NSF modified, using Type IV dumbell specimens, a strain rate of two inches per per minute, and grip movement for strain determinations. Carbon black dispersion slides were prepared according to ASTM D 3015, NSF modified, and rated according to the ASTM D 2663 dispersion classification chart under 100X magnification. Where appropriate, carbon black content was determined according to ASTM D 1603. Dimensional stability was determined according to ASIM D 1204 at 100°C for one hour.

A database listing of all test values follows.

GEOMEMBRANE SPECIFICATIONS

Thickness	40 mil Minimum	at least every 50,000 ft ²
Stress at Yield	2200 psi Minimum	at least every 50,000 ${\rm ft}^2$
Stress at Break	3800 psi Minimum	at least every 50,000 ft ²
Strain at Yield	13% Minimum	at least every 50,000 ft ²
Strain at Break	700% Minimum	at least every 50,000 ft ²
Carbon Black Di sp ersion	A1 o r A2	at least every 50,000 ft ²
Carbon Black Co nt en t	2% to 3%	at least every 50,000 ft ²
Dimensional Sta b ility	+/- 2%	at least once per shift

NATIONAL SEAL COMPANY

Quality Control Manager

7-26-94 Date

GEOMEMBRANE STANDARD TESTING

Date: 07/26/94

Page: 1

Bill(s) of Lading: 03493

		STRE	SS AT	STRE	SS AT	STRA	IN AT	STRAI	N AT	CARB	CARB	DIMENS	IONAL
ROLL	THICK	YIELD	(psi)	BREAK	(psi)	YIEL	D (%)	BREAK	(%)	DISP	CONT	STABIL	_ITY
NUMBER	(mil)	MD	TD	MD	TD	MD	TD	MD	TD		(%)	MD	TD
													—
C04L 1545-4E14000 2 1	42.1	2590	2760	5260	551 0	15.2	13.9	875	1040	A1	2.27	0.8	0 .0
CO4L1545-4E1400041	42 .0	2620	2710	5310	500 0	14.9	14.2	8 8 5	971	Α1	2.32	0.8	0.0
C04L 1 545-4E1400 06 1	42.0	2610	2590	5020	499 0	14.9	14.5	865	986	A1	2.29	-0.6	0.4
C04L 1 545-4E1400 08 1	42.0	2740	2810	5180	550 0	15.3	14.3	874	1040	Al	2.29	0.8	0.0
CO4L1545-4E14001 0 1	41.8	2620	2480	5230	505 0	14.4	15 .3	1020	863	A1	2.28	0.0	0.0
CO4L1545-4E14001 2 1	41.7	2490	2630	5470	5220	14.9	14.3	912	984	Α1	2.28	-0. 6	0.4
CO4L1545-4E15000 1 1	41.7	2630	2790	5360	5250	14.8	14.5	892	9 96	А1	2.30	0.8	0.0
C04L1545-4E15000 3 1	41.7	2680	2710	5380	5260	14.9	14.2	887	998	A1	2.24	0.0	0.0
C04L1545-4E15000 5 1	42.0	2720	2760	5210	470 0	14.6	14.2	868	894	Α1	2.26	-0.6	0.4
C04L1545-4E15000 8 1	41.6	2650	2830	5290	4990	17.6	15.2	860	918	Α1	2.28	-0. 6	0.2
CO4L1545-4E15001 1 1	41.6	2740	2800	4860	5440	17 .1	15.7	8 26	1018	Α1	2.24	0.8	0.0
CO4L1545-4E16000 4 1	41.6	2550	2820	5280	486 0	17.3	15 .8	8 86	904	A1	2.24	-0.6	0.4
C04L1545-4E16001 1 1	41 .4	2700	2820	5430	532 0	17.5	15 .8	892	988	Α1	2.28	-0.8	0.4

Quality Control Manager

alle

7-26-94 Date

TRAILER NO. 2381

EAL NO.

STRAIGHT BILL OF LADING ORIGINAL—NOT NEGOTIABLE

03493

PK NO.

ORDER NO.

AME OF CARRI	ER _	MEI	20er	•			1000286))	ATE 07	6782-110 1/26/94
						FROM SHIPPER	NATIO		AL COMPAN	Υ
CONSIGNEE STREET			WISTRIES			STREET		ONMOUT		
ESTINATION	RT AVE	93 & CL	ARENCE CEN	ITER ROAD		ORIGIN	GALES	BURG. ILL	INOIS 61402-	1448
	RK HAS		716-297-15	50	~~~					
			-HOUR NOTICE	REQUIRED PRIOR				UNLOADIN	G	
NO. SHIPPING UNITS	НМ			ID OF PACKAGING, DI SPECIAL MARKS	AND EXC	N OF ARTICLES			WEIGHTE (SUBJECT TO CORRECTION)	SOUTH .
5	#Z	40	MIL_1527		2			400-32-3	36,000	25,250
	1.3	10 10 10 10 10 10 10 10 10 10 10 10 10 1		ार क्षेत्रक के क्षेत्रक के किए के किए के किए के किए के किए किए के किए						
LENGTH	WIDTH	SF	HD I	VO.		: LENGTH	WIDTH	SF	iD NO.	
1 1670 3 1670 5 1670	15.00	25050 25050 25050	E04L1545- C04L1545-	4E15000617 4E1500031 X 4E1400041 X		-2 1670 4 1670	-15.00 -15.00	25050 C	04L1545-4E1 04L1545-4E1	40005 (V) 600041 (V
				A CONTRACTOR OF THE PROPERTY O	াঞ্জনের ভান ২০১৮ ১		ragione gras in Silata de la Carta de la C	1.5		
	• • • • • • • • • • • • • • • • • • • •		e some more manya Mila Li edusa ili ili ed					The state of the s		.K
				The second secon	y o o o o o o	TOTAL CONTROL TO THE		. o		
	ng Agricon Law di Matalan La	سر مستورد مناف مدارستان میداد میداد				1. 3. 3.				ithing the situate
	R	04.0 5/-)			The second secon	106				
				04/	<i>1</i> 5.	.45		15	1500	
	Zir.									
EMIT O.D. TO: DDRESS					С	OD			C.O.D. FEE: PREPAID COLLECT C	
OTE - Where the rat chippers are required criting the agreed o operty.	to state s	specifi cal ly in	are properly class marked and tabeled	at the above named arti- lifted, described, packag d, and are in proper condi-	ged, is to	Subject to Section as the delivered to the signor, the consignor	consignee with r shalt sign the	nout recourse or tollowing states	the CHARGES:	\$
The agreed or reperty is hereby so thipper to be not exce	pecifically s		regulations of Transportation.	according to the application the Department Sign		The carrier shall rout payment of freigi		lawful charges.	FREIGHT PREI except when b right is checker	ox at charges are to
ontents and condities contract as mei therwise to deliver destination and a deconditions in the	ition of co aning any r to anothe is to each ne governi	ntents of pack person or come er carrier on the party at any to ng classification	ages unknown), in coration in posses he route to said d ime interested in a in on the date of	or on the date of the is barked, consigned, and sion of the property un- estination. It is mutual all or any of said prop- shipment. Shipper hel- reed to by the shipper	ssue of this d destined nder the co ly agreed a erty, that e reby certifi	a Billi of Lading, the as indicated above ontract) agrees to as to each carrier every service to be es that he is fami	e property deals which said carry to its us of all or any experienced its arrival to the performed its with all till ar with	scribed above carrier (the w sual place of d of, said prope tereunder shall	ord carrier being und allvery at said destination over all or any pube subject to all the	derstood throughout ation, if on its route, portion of said route bill of lading terms
SHIPPER NA	MOITA	AL SEAL	COMPAN	Υ. ,		CARRIER				
ER //	\	clas		nteria	<u> </u>	PER		Ju		
				•		DATE				

HDPE GEOMEMBRANE PHYSICAL PROPERTIES

40 mil

The properties on this page are not part of NSC's Manufacturing Quality Control program and are not included on the material certifications. Seam testing is the responsibility of the installer and/or CQA personnel.

PROPERTIES	METHOD	UNITS	MINIMUM¹	TYPICAL
Multi-Axial Tensile Elongation	GRI, GM-4	percent	20.0	26.0
Critical Cone Height Wide Width Tensile	GRI, GM-3, NSC mod. ASTM D 4885	cm	1.0	1.5
Stress at Yield		psi	2000	2110
Strain at Yield		%	15.0	20.0
Brittleness Temp. by Impact ²	ASTM D 746	°C	-75	<-90
Coef. of Linear Thermal Exp.		°C ⁻¹	1.5 x 10 ⁻⁴	1.2 x 10 ⁻⁴
ESCR, Bent Strip	ASTM D 1693	ho urs	1500	> 10,000
Hydrostatic Resistance	ASTM D 751	psi	300	360
Modulus of Elasticity	ASTM D 638	psi	000,08	131,000
Ozone Resista nc e	ASTM D 1149, 168 hrs	P/F	Р	Ρ
Permeability ²	ASTM E 96	cm/sec · Pa	3.5x10 ⁻¹⁴	1.4×10 ⁻¹⁴
Puncture Resistance	FTMS 101, method 2065	p pi	1300	1900
		lbs	52	79
Soil Burial Resistance ²	ASTM D 3083, NSF mod.	% change	10	0
Tensile Impact	ASTM D 1822	ft lbs/in²	250	390
Volatile Loss ²	ASTM D 1203, A	pe rcent	0.10	0.08
Water Absorpti o n ²	ASTM D 570, 23°C	percent	0.10	0.04
Water Vapor Transmission ²	ASTM E 96	g/day · m²	0.036	0.014
SEAM PROPERTIES	METHOD	UNITS	MINIMUM¹	TYPICAL
Shear Strength	ASTM D 4437, NSF mod.	psi	2000	2630
J		ppi	80	109
Peel Strength	ASTM D 4437, NSF mod.	psi	1 500	1880
(hot wedge fusion)		ppi	60	78
Peel Strength	ASTM D 4437, NSF mod.	psi	1300	1590
(fillet extrusion)		ppi	52	66

STANDARD ROLL DIMENSIONS

Length	1670 feet	Area	25,050 ft ²
Width	15 feet	Weight	5.000 lbs

The information contained herein has been compiled by National Seal Company and is, to the best of our knowledge, true and accurate. All suggestions and recommendations are offered without guarantee. Final determination of suitability for use based on any information provided, is the sole responsibility of the user. There is no implied or expressed warranty of merchantability of fitness of the product for the contemplated use.

NSC reserves the right to update the information contained herein in accordance with technological advances in the material properties.

4H-0893



NATIONAL SEAL COMPANY 1245 Corporate Blvd. Stifte 300-3 Aurora: IL 80504 (708) 898: 161. (800) 323-3820

HDPE GEOMEMBRANE QUALITY CONTROL SPECIFICATIONS

40 mil

National Seal Company's High Density Polyethylene (HDPE) Geomembranes are produced from virgin, first quality, high molecular weight resins and are manufactured specifically for containment in hydraulic structures. NSC HDPE geomembranes have been formulated to be chemically resistant, free of leachable additives and resistant to ultraviolet degradation.

The following properties are tested as a part of NSC's quality control program. Certified test results for properties on this page are available upon request. Refer to NSC's Quality Control Manual for exact test methods and frequencies.

All properties meet or exceed NSF Standard Number 54.

RESIN PROPERTIES	METHOD	UNITS	MINIMUM'	TYPICAL
Melt Flow Index ² Oxidative Induction Time	ASTM D 1238 ASTM D 3895, Al pan, 200°C, 1 atm O ₂	g/10 min minutes	0.50 100	0.25 120
SHEET PROPERTIES	METHOD	UNITS	MINIMUM¹	TYPICAL
Thickness	ASTM D 751, NSF mod.			
Average	,	mils	40.0	41.5
Individual		mils	38.0	40.3
Density	ASTM D 1505	g/cm³	0.940	0.948
Carbon Black Content	ASTM D 1603	percent	2.0-3.0	2.35
Carbon Black Dispersion	ASTM D 3015, NSF mod.	rating	A1, A2, B1	A1
Tensile Properties Stress at Y ie ld	ASTM D 638	psi	2200	2460
Stress at field		ppi	88	102
Stress at Break		psi	3800	4920
Stiess at Dieak		ppi	152	204
Strain at Yi el d	1.3" gage length (NSF)	percent	13.0	16.6
Strain at Break	2.0" gage or extensometer	percent	700	880
	2.5 gage length (NSF)	percent	560	700
Dimensional Stability ²	ASTM D 1204, NSF mod.	percent	2.0	8.0
Tear Resistance	ASTM D 1004	ppi	750	870
		lbs	30	36
Puncture Resistance	ASTM D 4833	ppi	1800	2386
		lbs	72	99
Constant Load ESCR, Sing	le Point GRI, GM-5a	hours	200	> 400

This value represents the minimum acceptable test value for a roll as tested according to NSC's Manufacturing Quality Control Manual. Individual test specimen values are not addressed in this specification except thickness.



² Indicates Maximum Value

Malcom Pirnie, Inc. Test Results

Peal Test, Seam Integrity ASTM D413 Shear Test, Seam Integrity ASTM D3083

ASTM D4437 PEEL TEST RESULTS

MALCOLM PIRNIE, INC.

PROJECT: STRIPPIT LANDFILL CLIENT: DAY ENGINEERING

ATE TESTED: 8-26-94 THROUGH 8-30-94

TYPE OF LINER: HDPE

TYPE OF SEAM: Double Fusion

TEMPERATURE AT TESTING TIME: 69 DEGREES F

RELATIVE HUMIDITY AT TESTING TIME: 45%

FTB=Film Tear Bond

SAMPLE	SPECIMEN	WIDTH OF SPE	COMEN. DN	LOAD	LBS	ADHESION VA	LUE. PPI	TYPE OF B	REAK	PASS/FAIL	
NUMBER	NUMBER	WELD 1	WELD 2	WELDI	WELD 2	WELD I	WELD 2	WELD 1	WELD 2	WELD 1	WELD 2
5-1	1	1.007	1.007	89	64	88.4	63.6	FTB	FTB	P	P
	2	1.008	1.008	88	67	87 .3	66.5	FTB	FTB ·	P	P
-	3	1.007	1.007	86	62	85.4	61.6	FTB	FTB	P	p
	4	1.007	1.007	8.5	63	84.4	62.6	FTB	FT8	P	Р
	5	1.008	1.008	88	63	87.3	62.5	FTB	FTB	P	р
_	AVG	1.007	1.007	87	64	86.6	63.3				
	STD DEV.	0.∞∞	0,000	1.470	1.720	1.441	1.690				i
DS-2	1	1.007	1.007	94	66	93.3	65.5	FTB	FT8	Р	Р
	2	1.010	1.010	89	62	88.1	61.4	FTB	FTB	P	р
	3	1.010	1.010	89	63	83.1	62.4	FTB	FTB	P	Р
	4	1.007	1.007	86	71	85.4	70.5	FTB	FTB	Р	р
_	5	1.007	1.007	86	79	85.4	78.5	FTB	FTB	Р	Р
	AVG	1.008	1.008	89	68	88.1	57.7				
-	STD DEV.	0.001	0.001	2.926	6.242	2.901	6.266				
6-3	ı	1.009	1.009	92	66	91.2	65.4	FTB	FTB	Р	Р
	2	1.∞9	1.009	91	70	90.2	69.4	FTB	FTB	P	P
	3	1.008	800.1	92	72	91.3	71.4	FTB	FTB	P	P
-	4	1.008	1.008	93	68	92.3	67.5	FTB	FTB	Р	þ
•	5	1.011	1.011	95	71	94.0	70.2	FTB	FTB	P	P
_	AVG	1.009	1.009	93	308	91.8	68.8				
	STD DEV.	0. 001	0.001	1.356	2.154	1.278	2.124				
5-4	1	1.009	1.009	86	66	85.2	65.4	FTB	FTB	Р	P
-	2	1.011	1.011	88	61	87 .0	60.3	FTB	FTB	Р	P
	3	1.008	1.008	89	63	88.3	62.5	FTB	FTB	P	P
	4	1.008	1.008	90	62	89.3	61.5	FTB	FTB	P	P
	5	1.004	1.004	92	63	91.6	62.7	FTB	FTB	P	P
	AVG	1.008	1.008	89	63	88.3	62.5				
	STD DEV.	0.002	0,002	2.000	1.673	2.148	1.685				
DS- 5	1	1.009	1.009	92	73	91.2	72.3	FTB	РТВ	P	Р
	2	1.013	1.013	92	76	90.8	75.0	FTB	FTB	P	P
	3	1.006	1.006	83	69	82 .5	68.6	FTB	FTB	P	P
	4	1.015	1.015	89	64	87.7	63.1	FTB	FTB	P	P
	5	1.009	1.009	89	66	88.2	65.4	FTB	FTB	P	р
	AVG	1.010	1.010	89	70	88.1	68.9				
	STD DEV.	0.000	0.003	3.286	4,409	3.110	4.378				

ASTM D4437 PEEL TEST RESULTS

MALCOLM PIRNIE, INC.

PROJECT: STRIPPIT LANDFILL
CLIENT: DAY ENGINEERING

ATE TESTED: 8-26-94 THROUGH 8-30-94

TYPE OF LINER: HDPE

TYPE OF SEAM: Double Fusion

TEMPERATURE AT TESTING TIME: 69 DEGREES F

RELATIVE HUMIDITY AT TESTING TIME: 45%

FTB=Film Tear Bond

						THE TOTAL				· · · · · · · · · · · · · · · · · · ·	
SAMPLE	SPECIMEN	WIDTH OF SPE	CIMEN, IN	LOAD	LBS	ADHESION V	ALUE, PPI	TYPE OF B	REAK	PASS/FAIL	,
NUMBER	NUMBER	WELD 1	WELD 2	WELD I	WELD 2	WELD 1	WELD 2	WELD 1	WELD 2	WELD 1	WELD 2
6	1	1.006	1.006	84	68	83 .5	67.6	FTB	FTB	P	P
-	2	1.006	1.006	84	68	83.5	67.6	FTB	FTB	P	P
	3	1.005	1.005	86	70	85.6	69.7	FTB	FTB	P	P
	4	1.004	1.004	87	70	86.7	69.7	FTB	PTB	P	P
	5	1.007	1.007	86	69	85.4	68.5	FTB	FTB	P	P
	AVG	1.006	1,006	85	69	84.9	68.6				
	STD DEV.	0. ∞1	0,001	1.200	0.894	1.241	0.937				
D-7	1	1.006	1.006	77	83	76.5	82.5	FTB	FTB	P	P
	2	1.011	1.011	91	80	90.0	79.1	FTB	FTB	P	P
	3	1.006	1.006	83	81	82.5	80.5	FTB	FTB	P	P
	4	1.005	1.005	94	77	93 .5	76.6	FTB	FTB	P	P
= .	5	1.009	1.009	86	75	85.2	74.3	FTB	FTB	P	P
	AVG	1.007	1.007	86	79	85.6	78.6				
	STD DEV.	0.002	0.002	5.980	2.857	5.902	2.876				
	1	1.004	1.004	88	61	87.6	60.8	FTB	FTB	P	P
	2	1.005	1.005	88	70	87.6	69.7	FTB	FTB	P	P
	3	1.003	1.003	81	63	80.8	62.8	FTB	FTB	P	P
	4	1.005	1.005	86	87	85.6	86.6	FTB	FTB	P	P
	5	1,003	1.003	84	62	83.7	61.8	FTB	FTB	P	P
_	AVG	1.004	1,004	85	108	85.1	68.3				
R .	STD DEV.	0.001	0,001	2.653	9.728	2.587	9.639			<u> </u>	ļ
-9	1	1,005	1.005	94	70	93.5	69.7	FTB	PTB	P	P
	2	1.001	1.001	89	66	88.9	65.9	FIB	PTB	P	P
	3	1.006	1.006	95	67	94.4	66.6	FTB	PTB	P	P
	4	1.006	1.006	88	83	87.5	82.5	FTB	PTB	P	P
	5	1.006	1.006	94	87	93.4	86.5	FTB	FTB	P	P
	AVG	1.005	1.005	92	75	91.6	74.2				
	STD DEV.	0.∞2	0.002	2.898	8.686	2.806	8.562				
D-10	1	1.005	1.005	86	71	8 5.6	70.6	PTB	FTB	. Р	P
	2	1.005	1.005	87	68	86.6	67.7	FTB	FTB	P	P
	3	1.004	1.004	91	66	90.6	65.7	FTB	FTB	P	P
	4	1.004	1.004	89	72	88.6	71.7	FTB	PTB	P	P
	5	0.999	0.999	90	74	90.1	74.1	FTB	PTB	P	P
	AVG	1.003	1.003	89	70	88.3	70.0				
	STD DEV.	0.000	0.002	1.855	2.857	1.961	2.952				

ASTM D4437 PEEL TEST RESULTS

MALCOLM PIRNIE, INC.

PROJECT: STRIPPIT LANDF**IL**L CLIENT: DAY ENGINEERIN**G**

ATE TESTED: 8-26-94 THROUGH 8-30-94

TYPE OF LINER: HDPE

TYPE OF SEAM: Double Fusion

TEMPERATURE AT TESTING TIME: 69 DEGREES F

RELATIVE HUMIDITY AT TESTING TIME: 45%

FTB=Film Tear Bond

				-		NFTB=Non F	lm Tear Bond	Y			
SAMPLE	SPECIMEN	WIDTH OF SPE	CIMEN, IN	LOAD	, LBS	ADHESION V	ALUE, PPI	TYPE OF B	REAK	PASS/FAIL	
NUMBER	NUMBER	WELD 1	WELD 2	WELD I	WELD 2	WELD I	WELD 2	WELD I	WELD 2	WELD 1	WELD 2
-11	1	1.004	1.004	79	80	78.7	79.7	FTB	FTB	Р	P
3	2	1.005	1.005	86	83	85 .6	82.6	₽TB	FTB	P	P
_	3	1.004	1.004	82	75	81.7	74.7	FTB	FTB	P	P
	4	1.003	1.003	81	77	80.8	76.8	FTB	PTB	P	P
	5	1.006	1.006	84	68	83.5	67.6	FTB	FTB	P	P
	AVG	1.004	1.004	82	77	82.0	76.3				
	STD DEV.	0.001	0.001	2.417	5.083	2.3 51	5 .090				
D-12	1	1.005	1.005	93	71	92.5	70.6	FTB	FTB	P	P
-	2	1.006	1.006	91	75	90.5	74.6	FTB	FTB	P	P
	3	1.004	1.004	98	74	9 7.6	73.7	FTB	FTB	P	P
	4	1.006	1.006	96	73	95.4	72.6	FTB	FTB	P	P
.	5	1.004	1.004	93	72	92.6	71.7	FTB	FTB	P	P
	AVG	1.005	1.005	94	73	93.7	72.6				
	STD DEV.	0.001	0,001	2.482	1.414	2.5 01	1.388				ļ
D -13	1	1.004	1.004	91	73	90.6	72.7	FTB	FTB	P	P
	2	1.030	1.030	91	73	88.3	70.9	FTB	FIB	P	P
	3	1.031	1.031	95	74	92.1	71.8	FTB	FTB	P	P
	4	1.005	1.005	93	82	92.5	81.6	FTB	FTB	P	P
	5	1.006	1.006	90	82	89.5	81.5	FTB	FTB	P	P
	A∨G	1.015	1.015	92	108	90.6	75.7				
	STD DEV.	0.013	0.013	1.789	4.261	1.581	4.819				
-14	1	1.004	1.004	88	71	87 .6	70.7	FTB	FTB	P	P
	2	0.996	0.996	85	74	85 .3	74.3	PTB	FTB	P	P
	3	1.008	1.008	90	72	89.3	71.4	FTB	FTB	P	P
	4	1.005	1.005	88	69	87.6	68.7	FTB	PTB	P	P
	5	1.007	1.007	91	70	90.4	69.5	PIB	втв	P	P
	AVG	1.004	1.004	88	71	88.0	70.9				
	STD DEV.	0.004	0,004	2.059	1.720	1.711	1.939				

ASTM D4437 SHEAR TEST RESULTS

MALCOLM PIRNIE, INC.

PROJECT: STRIPPIT LAND**FI**LL CLIENT: DAY ENGINEERIN**G**

ATE TESTED: 08-26-94 THROUGH 08-30-94 TYPE OF LINER: HDPE

TYPE OF SEAM: DOUBLE FUSION

TEMPERATURE AT TESTING TIME: 72 degrees F RELATIVE HUMIDITY AT TESTING TIME: 48%

FTB=Film Tear Bond

		<u> </u>	MAXIMUM	BREAKING FACTOR	ELONGATION	TYPE]
SAMPLE	SPECIMEN	WIDTH	LOAD	MAX LOAD/ORIG WIDTH	AT BREAK	OF	PASS/FAIL
NUMBER	NUMBER	IN.	LBS	PPI	%	BREAK	
DS+1	1	1.007	116	115.2	100	FTB	P
	2	1.011	115	113.7	100	FTB	P
_	3	1.012	115	113.6	100	FTB	P
	4	1.013	116	114.5	100	FTB	P
	5	1.019	116	113.8	100	FTB	P
_	AVG	1.012	116	114.2	100		
	STD DEV.	0.004	0.490	0.589	0.000		
DS+2	1	1.012	114	112.6	100	FTB	Р
	2	1.011	113	111.8	100	PTB	P
	3	1.011	115	113.7	100	FTB	P
	4	1.007	114	113.2	100	PTB	P
	5	1.011	115	113.7	100	FTB	P
	AVG	1.010	114	113.0	100		1
	STD DEV.	0.000	0.748	0.748	0.000		
DS-3	1	1.009	117	116.0	91	FTB	P
	2	1.008	115	114.1	73	FTB	P
	3	1.007	116 (115.2	79	FTB	P
	4	1.012	115 (113.6	79	FTB	P
	5	1.007	115	114.2	77	FTB	P
	AVG	1.009	116	114.6	80		
	STD DEV.	0.002	0.800	0.842	5.987		
DS-4	1	1.026	117	114.0	100	FTB	Р
	2	1.009	117	116.0	100	FTB	P
	3	1.019	113	110.9	100	FTB	P
	4	1.007	115 (114.2	100	FTB	P
	5	1.008	113	112.1	100	FTB	P
	AVG	1.014	115	113.4	100		1
	STD DEV.	0.007	1.789	1.763	0,000		
DS-5	1	1.009	117	116.0	100	FTB	P
	2	1.010	115	113.9	100	FTB	P
	3	1.014	115	113.4	100	FTB	P
	4	1.011	116	114.7	100	FTB	P
	5	1.010	115	113.9	100	FTB	P
	AVG	1.011	116	114.4	100		•
	STD DEV.	0.002	0.800	0.904	0.000		1

ASTM D4437 SHEAR TEST RESULTS

MALCOLM PIRNIE, INC.

PROJECT: STRIPPIT LANDFILL

CLIENT:DAY ENGINEERING TE TESTED: 08-26-94

THROUGH 08-30-94

TYPE OF LINER: HDPE

TYPE OF SEAM: DOUBLE FUSION

TEMPERATURE AT TESTING TIME: 72 degrees F

RELATIVE HUMIDITY AT TESTING TIME: 48%

FTB=Film Tear Bond

			MAXIMUM	BREAKING FACTOR	ELONGATION	TYPE	
SAMPLE	SPECIMEN	WIDTH	LOAD	MAX LOAD/ORIG WIDTH	AT BREAK	OF	PASS/FAIL
NUMBER	NUMBER	IN.	LBS	P PI	%	BREAK	
-6	1	1.004	112	111.6	100	FTB	P
•	2	1.008	112	111.1	100	FTB	P
	3	1.008	114	113.1	100	FTB	P
	i 4	1.006	114	113.3	100	FTB	P
	5	1.006	114	113.3	100	FIB	Р
	AVG	1.006	113	112.5	100		1
	STD DEV.	0.001	0,980	0.951	0.000		
D-7	1	1.007	109	108.2	100	FTB	P
	2	1.008	111 2	110.1	100	FTB	P
	3	1.008	112 ;	111.1	100	FTB	Р
	4	1.007	113	112.2	100	FTB	Р
	5	1.008	111	110.1	100	FTB	P
	AVG	1.008	111	110.4	100		1
	STD DEV.	0.000	1,327	1.312	0.000		
-8	1	1.008	114	113.1	100	FTB	P
	2	1.007	115	114.2	100	FTB	P
	3	1.007	114	113.2	100	FTB	P
•	4	1.007	108	107.2	33	FTB	P
	5	1.012	114	112.6	100	FTB	Р
	AVG	1.008	113	112.1	87		1
ı	STD DEV.	0.002	2,530	2.468	26.680		
)-9	1	1.008	115	114.1	100	FTB	P
-	2	1.013	111	109.6	100	FTB	P
Į.	3	1.007	110	109.2	100	FTB	P
	4	1.008	110	109.1	100	FTB	P
=	5	1.008	113	112.1	100	FTB	Р
Į.	AVG	1.009	112	110.8	100		}
	STD DEV.	0.002	1,939	1.962	0.000		
D-10	1	1.008	106	105.2	100	FTB	P
	2	1.008	109	108.1	100	FTB	P
	3	1.006	110	109.3	100	FTB	P
	4	1.007	113	112.2	100	FIB	P
	5	1.007	114	113.2	100	FTB	P
	AVG	1.007	110	109.6	100		
	STD DEV.	0.001	2,871	2.891	0.000		ļ

ASTM D4437 SHEAR TEST RESULTS

MALCOLM PIRNIE, INC.

PROJECT: STRIPPIT LANDFILL

CLIENT:DAY ENGINEERING

DATE TESTED: 08-26-94

THROUGH 08-30-94

TYPE OF LINER: HDPE

TYPE OF SEAM: DOUBLE FUSION

TEMPERATURE AT TESTING TIME: 72 degrees F

RELATIVE HUMIDITY AT TESTING TIME: 48%

					NFTB=Non Film T	ear Bond	
	····		MAXIMUM	BREAKING FACTOR	ELONGATION	TYPE	
SAMPLE	SPECIMEN	WIDTH	LOAD	MAX LOAD/ORIG WIDTH	AT BREAK	OF	PASS/FAI
NUMBER	NUMBER	IN.	LBS	PPI	%	BREAK	
D-11	ī	1.009	109	108.0	37	FTB	Р
	2	1.005	68	67.7	98	FTB	F
	3	1.007	111	110.2	100	FTB	P
	4	1.007	110	109.2	100	FTB	P
	5	1.007	128	127.1	100	FTB	P
	AVG	1.007	105	104.5	87		
	STD DEV.	0.001	19.874	19.677	25.239		
D-12	1	1.005	74	73.6	100	FTB	F
	2	1.004	112	111.6	100	FTB	P
	3	1.006	114	113.3	100	FTB	P
	4	1.006	114	113.3	1∞	FTB	P
	5	1.005	115	114.4	100	FTB	P
	AVG	1.005	106	105.3	100		
	STD DEV.	0.000	15.930	15.836	0.000		
D-13	1	1.006	108	107.4	100	FTB	P
	2	1.011	111	109.8	100	FTB	P
	3	1.010	111	109.9	100	FTB	P
	4	1.009	111	110.0	100	FTB	P
	5	1.007	112	111.2	100	FTB	P
	AVG	1.009	111	109.7	100		
	STD DEV.	0.002	1.356	1.261	0.000		
D-14	1	1.009	113	112.0	100	FTB	P
	2	1.007	113	112.2	100	FTB	P
	3	1.010	132	130.7	100	FTB	P
	4	1.009	113	112.0	100	FTB	P
	5	1.008	114	113.1	100	FTB	P
	AVG	1.009	117	116.0	100		
	STD DEV.	0.001	7.510	7.359	0.000		!

ENVIRONMENTAL SECURITY SERVICES, INC.

GEOMEMBRANE INSTALLATION SUMMARY REPORT

ENVIRONMENTAL SECURITY SERVICES INC PANEL PLACEMENT FORM

PROJECT NAME: Strippet PROJECT NUMBER: _____ MATERIAL DESCRIPTION: 40 Nil HIPE

DATE/ TIME	PANEL NUMBER	ROLL NUMBER	PANEL LENGTH	PANEL WIDTH	COMMENTS/ PANEL LOCATION
8/26/2:45	j		465	14.6	Starting punel on top of south slope panel punsionst
8/26/8:06	2		463	14.6	Panel runs last to west - top of cap
8/26/8,23	3		466	14.6	Pariel runs east to west - top of caps
¥26 8:39	4		26	14.6	Starting panel east end of south slope - panels runs porth
\$ 26 8:43	5		26	14.6	Panel runs north to south - Douth plope
\$/26/8:48	6		26	14.6	Panel kuns north to south - south slope
8:54	7		28	14.6	Panel simm north to Douth - Douth slope
926 9:00	8		28	14.6	Panel runs north to south - south slope
9:07	9		28	14.6	Panel runs north to south - south slope
326	10		29	14.6	Panel kuns north to south - south slope
4:21			29	14.4	Panel huns north to south - south slope
9:28	12	<u> </u>	3/	146	
8/26/31	13		34	14.6	Panel runs north to Douth - Douth slope
9:45	14		34	14.6	,
4.54			38	14.6	Panel runs north to south - south slope

PANEL PLACEMENT FORM

PROJECT NAME: Strippit PROJECT NUMBER: _____ MATERIAL DESCRIPTION: 40 Mil HOPE

DATE/ TIME	PANEL NUMBER	ROLL NUMBER	PANEL LENGTH	PANEL WIDTH	COMMENTS/ PANEL LOCATION
\$/26/02	16		40	14.6	Punel runs north to Douth - south slope)
8/26/10:11	17		40	14.6	Panel burn north to south - south slope
8/26/	18		42	14.6	Panel rung north to south - south slope
8/26/	19		44	14.6	Panel huns north to south - south slope
8/26/29			44	14.6	Panel kuns north to south - south slope
10:38 \$126 10:48			4/5	14.6	Panel runs mouth to south - south slopes
70.70 926 10.58			45	14.6	Panel rins morth to south - south slope
8/26/	23		45	14.6	Panel kuns north to south - south slope
8/26/11:18	24		46	14.6	Panel runs with to south - south Dlope
8/36/	25		46	14.6	Panel huma north to south - south slope
8/26/	26		47	14.6	Punel huns north to south - shope
8/26/	27		465	14.6	Panel runs last to west - top of eage
8/26/	28		460	14.6	Panel huns east to west top of caps
8/26/			48	14.6	Panel runs north to south - south slope
8/26/	29 30		48	14.6	Panel runs north to south - Douth slope
11:58			70		

E.S.S.I. ENVIRONMENTAL SECURITY SERVICES INC PANEL PLACEMENT FORM

PROJECT NAME: Strippet: PROJECT NUMBER: MATERIAL DESCRIPTION: 40 MIL HDPE

DATE/ TIME	PANEL NUMBER	ROLL NUMBER	PANEL LENGTH	PANEL WIDTH	COMMENTS/ PANEL LOCATION
8/26/	31		50	14.6	Panel runs north to south - south slope
8/26/			50	14.6	Panel runs north to Douth - South Slope
8/26/2:06	33		57	14.6	Panel riens sant to west - top of cap
8/26/	34		55	14.6	Panel runs, east to west - top of capi
8/26/	35		53	14.6	Panel runs east to west - top of cap
8/26/	36		52	14.6	Panelrum last to west - top of cap.
8/26/2:27	.37		52	14.6	Panel runis Fronth to south - south slope
8/26/ 2:32	38		52	14.6	Panel runs morth to south - south plope
8/27 1:30	39		396	14.6	Panel runs east towest - tops of cap
3/27/	40		364	14.6	Panel huns) last towest - top of cap
8/27	41		35/	14.6	Parul runs east to west - top of cap
8/27/8:15	42		321	14.6	Panel suns east to west - top of cap
8/27/8:30	43		78	14.6	Panel suns) south to north - north slope
8/27/	44		78	14.6	Panel runs south to north - north sliges
8/27/	45		81	14.6	Panel runs south to north - north plape
				ŀ	

ENVIRONMENTAL SECURITY SERVICES INC PANEL PLACEMENT FORM

PROJECT NAME: Strippet PROJECT NUMBER: _____ MATERIAL DESCRIPTION: 40 WILL HOPE

DATE/ TIME	PANEL NUMBER	ROLL NUMBER	PANEL LENGTH	PANEL WIDTH	COMMENTS/ PANEL LOCATION
8/27/9:05	46		27	14.6	Panel kurs southwest to north east - northeast slope
8/17/	47		37	14.6	Panel runs southwest to northeast - northeast slope
8/27/9:25	48		47	14.6	Panil runs southwest to northeast - northeast slope
8/27/	49		57	14.6	Panel kuns southwest to northeast - northeast slape
8/37/9:45	50		66	14.6	Panel kuns southwest to northeast - northeast slope
8/37/9:57	5/		75	14.6	Panel kurs southwest to northeast - northeast slope
8/37/10:10	52		75	146	Parel hurs southwest to northeast - northeast slope
8/27/10:20	53		65	146	Puncle runs prutturest to northeast - portheast plage
10:30	54	·	45	14.6	Panel, hume pourthwest to northeast - northeast slope
10:38	55		22	14.6	Panel huns southwest to northeast - northeast slope
10:45	56		97	14.6	Panel runs south to morth - north slope
10:55	57		76	14.6	Panel runs pouth to north - north alger
8/27/11:05	58		76	14.6	Panel huns south to north - north slope
8/27/	59		77	14.6	Panel huns south to north - north slopes
427/	60		77	14.6	Punel runs south to north - north slope

ENVIRONMENTAL SECURITY SERVICES INC PANEL PLACEMENT FORM

PROJECT NAME: Strippet PROJECT NUMBER: _____ MATERIAL DESCRIPTION: 40 mil HDPE

DATE/ TIME	PANEL NUMBER	ROLL NUMBER	PANEL LENGTH	PANEL WIDTH	COMMENTS/ PANEL LOCATION
8/27/	,61		78	14.6	Panel kuns south to north - north slope
8/27/			78	146	Panel rune south to north plage
8/27/	63		82.	14.6	Panel runs south to north - north slope
8/27/ 12.06	,		85	14.6	Panel kuns south to north - north stope
8/27/	65		90	14.6	Panal hum south to morth - north slope
427/	66		90	14.6	Panel ruw south to north - north Ploper
8/27/	67		141	14.6	Panel ruins last to west - top of cap
8/27/1:31	68		77	14.6	Panel runs south to north-north slope
8/27/1:45		·	38	14.6	Panel huns Douth to with - north plage,
\$/37/1:55	70		97	14.6	Panel kuno south to north- north slope
8/27/2:07	71		108	14.6	Panel kum Douth to north - north slope 1
\$37/2:17	72		110	14.6	Panel runs south to north-north slope
8/27/2:34	73		68	14.6	Panel huns south to moth - northislope
8/27/	74		63	14.6	Panel runs south to north - north slope
8/275:47	75		58	14.6	Parel Auns south to north - north slope
73.11	/5			17.0	

ENVIRONMENTAL, SECURITY SERVICES INC PANEL PLACEMENT FORM

PROJECT NAME: Strippet PROJECT NUMBER: MATERIAL DESCRIPTION: 40 Mil HOPE

DATE/ TIME	PANEL NUMBER	ROLL NUMBER	PANEL LENGTH	PANEL WIDTH	COMMENTS/ PANEL LOCATION
8/29/	76		22	14.6	Panel runs outh east to northwest - morthwest slope
8/29/11.45	77		42	14.6	Panel runs southeast to northwest - northwest slope
8/29	78		52	146	Panel runs southeast to northwest - northwest aleps
×29/ 20.10	79		49	146	Panel huma southwest to northwest - northwest slope
129/20	80		20	14.6	Panel runs southwest to northwest - northwest slope
•					
				·	
. 					
				· 	
ĺ					

PANEL SEAMING FORM

PROJECT NAME: Strepp + PROJECT NUMBER: _____ MATERIAL DESCRIPTION: 40 DIC HOPE

DATE/ TIME	SEAM NUMBER	PANEL NUMBERS	SEAM LENGTH	SEAMER INITIALS	MACHINE NUMBER	TEMP SETTING	WEATHER	WINDS	AMDIENT TEMP	DES TEST P/F	COMMENTS
8/26/	1	142	465	NM.	1509	750%	Sunny	mild	70-75	DSI P	
8/26/ 25:25	2	2+3	463	KK	1509	7500	Sunny	mild	70-75	DS2 Ρ	
8/24/	3	4+5	26	NM	1509	7500/16	Surry	mild	70 - 75	· · · · · · · · · · · · · · · · · · ·	
8/26/10:48	4	5+6	36	HM	1509	7500	Sunny	mild	70-75		
8/26/	5	6+7	26	HM	1509	7500/	Sunny	mild	70 - 75		
436 11:05	le	7+8	35	NM	1509	7500/	Suxny	Mild	70-75		
926/11:12	7	8+9	28	HH	1509		Sunny	mild	70-75	D55-P	
\$26/ 211:21	8	9+10.	28	HM	1509	150%	Sinny	Mild	70-75		-
8/26/11.28	9	10+11	29	NM	1509		Survey	mild	70-75		
926	10	1/4/2	29	Mas.	1509		Sunny	mila	70-75		
8/26 11:45	//	12413	3/	NH	1509		Surny	mila	70-75		
3/26/	12	13+14	34	HM	1509	750°/	Suxny	mild	70-75		
12:06	/3	14415	34	HM	1509	1500/	Suxny	nild.	70-75		
12.14	14	15+16	38		1509	16'	Surny	mild	70-75		. •
	1		1								

PANEL SEAMING FORM

PROJECT NAME: Strepp. t PROJECT NUMBER: _____ MATERIAL DESCRIPTION: 40 MARCHOPE

DATE/ TIME	SEAM NUMBER	PANEL NUMBERS	SEAM LENGTH	SEAMER INITIALS	MACHINE NUMBER	TEMP SETTING	WEATHER	WINDS	AMBIENT TEMP	DES TES	COMMENTS
8/26/	15	16+17	40	NM.	1509	750°/	Sunny	mild	70-75		
12.30	16	17+18	40	HM	1509	7500/	Sunny	mice	70-75		
8/26 12:39	_17	18+19	42	HM	1509	750°/	Sunny	mild	70-75		
8/26/ 12:50	18	19420	44	MM	1509	1500/	Sunny	nuld	70-75		
8/24/	19	20+21	44	MM	1509	7500/	Sunny	Mild	70-75		
8/26/1:14	-20	3/422	45	MM	1509	750°/ 150°/	Sunny	mila	70-75		
8/26/1:27 8/26	07/	22+23	45	HM	1509	750%	Sunny	mild	70-75		
424	22	23+24	45	NM	1509	750° /	Sunny	mild	70-75	DS6-P	-
8/26	23	24425	46	HH		1500/	Surry		70- 75		
3/26/		35426 3	46	HM:		7500/		, .	70-75		
3/26		36+27	465	NH	1	750°/	/	mild	.70-75		
8/26/		27+28	465	HH		7500/	/	mild	70-75	DS4 - P	
8/26		26+29	47	HM		1500/	Susary		70-75		· .
3:59		29+30	48	HM		7.500/	/	med	70-75		
14:16	54 /	30+31	73	HH_	1509	1/6	Tunny	med.	70-75		•

PANEL SEAMING FORM

PROJECT NAME: Strippet PROJECT NUMBER: MATERIAL DESCRIPTION: 40 MIL HOPE

DATE/ TIME	SEAM NUMBER	PANEL NUMBERS	SEAM LENGTH	SEAMER INITIALS	MACHINE NUMBER	TEMP SETTING	WEATHER	WINDS	AMDIENT TEMP	DES TEST	COMMENTS
726 4:30	30	31+32	30	HM.	1509	750°/	Sunny	mila	70-75		
926/ 24.47	3/	32437	50	HM	1509	750%	Sunny	mild	70-75		
\$26/ 5:05	32	37+38	52,	HM	1509	1500	Sunny	mild	70-75	D57-P	
¥26/ 5.21	33	33+34	<i>55</i>	NM	1509	750%	Sunny	Wild	70 -75		
15.45	34	34+35	53	NM	1509	7500	Sunny	mild	70-75		
5/26 5:59	35	35+36	52	NM	1509	750°/	Stenny	mild	70-75		
16:15			52	HM	1509	150° j 	Sunne	mild	70-75	:	Butt seam southwest
5/xe/ 16:32			465	HM	1509	750°/ /16'	Seenny	mila	70-75		Butt seem top of cap to south slape
8/27/9:50	36	28439	460	HH.	1509	7500/16'	Stexny	Mild	70.85	D58-P	
8/27/10:16		39+40	396	HM	·	7.500/			70-85		
8/27	38	40+41	366	HM	1509	750%	Sunny	mild	70-85	DS//-P	
8/27/	39	41+42	351	HM	1509	750%	Sunny	mied	70-85		
\$/27	40	43+44	78	HM	1509	1500/	Sunny	mila	70-85		•
\$/27	4/	44445	78	HH	1509	1500/	Sunny)	nied.	70-85	D59-P	
ļ	ł	1	į		J		'	ł			

ENVIRONMENTAL SECURITY SERVICES INC PANEL SEAMING FORM

PROJECT NAME: Strippet: PROJECT NUMBER: MATERIAL DESCRIPTION: 40 mil HODE

DATE/ TIME	SEAM NUMBER	PANEL NUMBERS	SEAM LENGTH	SEAMER INITIALS	MACHINE NUMBER	TEMP SETTING	WEATHER	WINDS	AMBIENT TEMP	DES TEST P/F	COMMENTS
11:36	42	46447	32	NM.	1509	75 0° //16'	Sunny	mild	70-85		·
11:44	43	47448	42	H1-1	1509	7500/	Sunny	mild	70-85		
\$/27	44	48+49	47	HM	1509	7500/	Sunny	mild	70-85		
37/12:02	45	49.450	57	HM	1509	7500	Sunny	mild	70-85		
127/2:32	46		8/	HM	1509	1500/	Suxney	mild	70-85		tie in Deam for invide corner northeast slape.
\$/27/ 12:42 \$/27/	47	50+51	10	MM	1509	1500	Surry	mild	70-85		- /
112:54 8/27	48	5/452	75	HM	1509	7500	Surny	mild	70-85	D510-P	
1:05 8/12	49	<i>5</i> 2+53	70	HM	1509	7500/	Surny	mild	70-85		-
1:13 8/17/	50	<i>53+54</i>	50	NM	1509	7500/	Sunny	muld	70- 8 5		
8/22/	5/	54+55	30	HM	1509		Sunny	Meld	70-85		tie in siam dos i mais.
7:38 927	52	<u> </u>	76	HM	1509	1500/	Surry	mild	70-85		tie in seam for inside lorner northeast slope
/1:48 8/21/	53	56+57	76	HM	1509		Sunny	mild	70.85		
1:58	54	57+58	76	HM	1309		Бинну	mild	.70- 8 5		
8/27/	55	58+59	76	HH	1509	7500	/	med	70-85		•
3:21	54	59460	77	HM	1509	16	Sunny	mila	70-85 D	15/2-P	

ENVIRONMENTAL SECURITY SERVICES INC PANEL SEAMING FORM

PROJECT NAME: Strippit PROJECT NUMBER: _____ MATERIAL DESCRIPTION: 40 nil HDFE

DATE/ TIME	SEAM NUMBER	PANEL NUMBERS	SEAM LENGTH	SEAMER INITIALS	MACHINE NUMBER	TEMP SETTING	WEATHER	WINDS	AMDIENT TEMP	DES TEST	COMMENTS
8/17/3:30	57	60+61	76	HM.	1509	7500/16	Swany	mild	70-85		
8/27/3:41	58	61+62	78	AM	1509	7500	Swany	mild	70-85		
8/27/	59	62+63	78	NM	1509	7.500	Sunny	mild	70-85		
5/27/	60	63+64	82.	NIY	1509	7500/	Sunny	mild	70-85		
8/27/	61	64465	85	NM	1509	7500/	Sunny	mila	70-85		
8/37/	62	65+66	90	NM	1509	7500/	Sunny	mid	70-85	<u></u>	A # Out to the state of the sta
3hr	ν			HM	1509	· · · · · · · · · · · · · · · · · · ·	Suxny	Mild	70-55	:	Butt Dearn for the in of north slope and top of cap
3/29/	63	42+67	141	HM	1509		Surny	Windy	68-74		-
3/29/11:25	64	66+68	77	HM	1509	7500/	Swiny	windy	68-74	DS13-P	
3/39	65	68+69	. 77	HAJ.	1509		Sung	windy	68-74		
8/29/	66	69+70	88	NM	1509		Sunny	wendy	68-74		
8/29	67	70+7/	97	NE	1509	750%	Surry	wendy	68-74		
8/29/12:15	68	7/+72	108	HM	1509	7500/	Sunnes !	windy	68 - 74		
8/29/	69	23+74	68	HM	1509	1500/	Junny !	windy	68-74		•
8/29	70	74475	63	MM.	1509	750%	Sunny !	vinely	68-74		

ENVIRONMENTAL SECURITY SERVICES INC PANEL SEAMING FORM

PROJECT NAME: Streppet PROJECT NUMBER: MATERIAL DESCRIPTION: 40 MICHAPE MACHINE TEMP **AMBIENT** DATE/ SEAM PANEL SEAM **SEAMER DES TEST** WEATHER WINDS COMMENTS **SETTING TEMP** NUMBER TIME NUMBER LENGTH INITIALS P/F NUMBERS 750°/ Sunny wendy 68-74 HM. 76+77 30 1509 7/ 12:40 72 77+78 HH 13:46 48 1509 73 MM 78+79 50 1509 16' Sarry Windy 68-74 13:58 79+80 34 HM 1509 7500/ Sunny Windy 68-74 tie in north west corner 1120 75 1509 HM to north plope 7500/ Surry Windy 68-74 tie in northwest corner to north alope

1800/ Surry Handy 68-74 DS14-13 northwest slope 7500/ Sunny Windy 68-74 76 111-1 1509 HH 1509

DESTRUCTIVE TEST LOG

PAGE _____ OF ____

		PROJEC [*]	T NAME:	StR	Strippit PROJECT NUMBER:							
DATE	SAMPLE I.D.	SEAM NO.		OPER INITIALS			PASS / FAIL	DATE TO LAB PKG, SLIP NO.	LAB PASS /	LOCATION / COMMENTS		
	/	1	1509	HM	156139	131 142	139130	P	8/28/94	P	150/175	
8/27	2	1	1509	Hos	123 127	100	109/06	P	8/28/94	P_	142/160	
8/27	2	3	1509	Hm	137 130	121	125 132	P	8/28/94	P	206/181	
8/27	4	26	1509	Was	133 120	131 135	13/116	P	8/28/98	P	221/195	
8/27	5	8	1509	Hen	134 112	130 113	113/22	P	8/28/94	P_	177 / 120	
8/27	6	23	1509	HM	121 120		140 115	P	8/28/94	P	215 / 185	
8/27	7	32	1509	HM	100 127	130 133	130 127	P	8/28/94	P	190 / 198	
8/30	8	38	1509	HM	131 118	148 129	113 135	<u> </u>	8/30/84	P	201 / 175	
8/30	9	43	1509	HM	129/33	118 126	135-111		8/30/94	P	171 / 169	
8/30	10	50	1509	HM	122 121	119 137	130/21	P	8/30/98	P	179 / 121	
8/30	11	34	1509	HM	141 136	The state of the s	129/38	P	8/30/94	P	192 / 202	
8/30	/2	56	1509	Hen	132 129		13/128	P	8/30/24	0	189 / 311	
8/30	13	63	1509	1400	1/2 /32		133/27	P	8/30/94	P	167/159	
8/30	14	68	1509	HM	130 135	119	137	<i>P</i>	8/30/84	-	199 / 180	
	· ·	<u> </u>										
								, _				
		 - 										
,		ļ 										
	ļ	ļ		ļ								
		ļ	<u> </u>	<u> </u>	<u> </u>							
	ļ	<u> </u>			·							
		ļ										
-	ļ		ļ	 								

Page ______I

E.S.S.I.

TRIAL WELD INFORMATION

PROJECT NUMBER: _____ MATERIAL DESCRIPTION: You'l HOPE ROJECT NAME Stripp it FUSION WELDS EXTRUSION WELDS PEEL VALUES PASSI COMMENTS WEDGE MEASURED MACHINE MEHEAT SP(ID Q.C. DARNEL VITE AMBIENT STANCE **SM** LBS / INCH STEED SETTIMO TEMP TEMP NUMBER MIMS INITIALS TEMP TEMP FT / MIN IINE SHEAK PYRO SET PYRO 251 SET PYMA 88 84 102 8:30 750 95 20 12:45 1509 HM 90 80 101 95 750 1509 8/26 110 183 9:20 **9**9 29 84 100 750 1509 65 P 92/100 P 111/109 3:05 84 16 150 100-1509 82 8/27 90 80 10:53 16 85 250 68 1509 8/29 #

Environmentar Sect ity Services, Inc.

REPAIR REPORT

PAGE _____ OF ____

PROJECT NAME: Strippit PROJECT NUMBER: MATERIAL DESCRIPTION: 40 mil HOP **PANEL** REPAIR MACHINE TEST FIELD REPAIR TEST TEST LOCATION / COMMENTS **CREW** NUMBER DATE CREW PIF SEAM # DATE NO. DS# L REPAIR 8/27/84 B.T. 8/29/94 JS+B.S. 1+2 001 DS#2 REPAIR 8/27/94 B.T. 2 8/29/94 JSTAS 243 001 DS#5_BERALR__ 3 849 8/27/24 B.T. 8/22/24 7.5.+8.5 001 _AIR_TEST_REPAIX_ 8/29/98 J.S. L.B.S. 8/27/94 B.T. 11+10 001 AIR_TEST_REPAIR 8/27/94 B.T. 8/29/94 J.S. 1-BS 12113 001 Boot And REPAIR Acound GAS WELL 8/29/94 J.S. LBS. 8/27/94 B.T. 23424 22 001 _AiR_TESt_REPAIR_ 8/29/94 JS. + BS. 8/27/98 B.T. 25+26 001 24 __DS#3__REPAIR____ 8/27/94 B.T. 8/29/94 5.5. 7.85. 3 427 25 001 OS#4 REPAIR___ 8/27/98 B.T 8/22/84 J.S. J. B.S. 27+28 001 26 AIR TEST REDAIR 8/22/94 B.T 8/29/94 J.S. & BS. 29 30431 001 Boot and REPAIR AROUND GAS WALL AIR TEST REPAIR

BAND EXTRUSION WHOLE SHAM 8/27/94 B.T. 8/29/94 25 185 35436 33 00/ DS#B REPAIR BOOT REPAIR AROUND GAS WOL 8/27/94 B.T 34 28+39 8/29/94 J.S. 2B.S. ool DS#IL_REPAIR__ 36 8/27/94 B.T. 8/29/94 J.S. +B.S. 40 + 41 001 36 DS#9_REPAIR_ 39 8/29/94 J.S. +8.5 P 44+45 8/20/94 B.T. 001

Environmentar security services, inc.

REPAIR REPORT

PAGE _____ OF ____

Strippit PROJECT NAME: PROJECT NUMBER: ____ MATERIAL DESCRIPTION: Yomil HOPE FIELD **PANEL** REPAIR REPAIR MACHINE TEST TEST TEST LOCATION / COMMENTS **CREW** SEAM # NUMBER DATE **CREW** P/F NO. DATE EXTRUSION WELD CORNER 8/29/94 B.T. 8/29/99 55.485. 46 001 PIECE ON PANEL 46 _AIR_TEST_BEPAIR_ 8/29/94 B.T. 8/29/94 JS.+BS. P 40 46+47 001 _AIR_TEST_BEPAIR_ 8/29/94 B.T 8/29/94 US+BS 41 47+48 001 _Air_TEST_REPAIR_ 42 8/29/94 B.T. 8/29/99 J.S. J.B.S. 48149 001 ALR TEST REPAIR 8/29/94 B.T. 8/29/94 JS + B.S. 49250 44 001 ALR TEST BEPAIR 8/29/94 B.T. 8/29/94 JJ. 78.5. 45 50457 001 AIR TEST REPAIR. 8/29/94 B.T. 8/30/94 J.S.+ B.S. 46 57452 001 ALR_TEST_REPAIR_ 8/29/94 B.T. 8/30/84 JS +BS 47 52453 001 AIR_TEST_REPAIR_ 8/29/94 B.T. 8/30/94 JS+BS 48 53454 00/ _AIR_TEST_BEPAIR_ 49 8/29/24 B.T. 8/30/84 JSLBS 54455 00/ AIR TEST REPAIR

EXTRAGON WELD CORNER PIECE ON PANEL 63 8/29/94 B.T. 55 8/30/84 JS+ BS 001 DS#12_REPAIR__ 8/29/94 B.T 8/30/84 JS.+BS 55 59+60 001 DS#13_REPALR__ 61 66+68 8/20/94 B.t. 8/30/94 JS + BS 00/ 8/31/94 Him __AiR_tEst_REPAIL 62 8/31/94 B.M 42+67 00/ EXTRUSION 68' of SEAM ALR_TEST_REPAIR 67 8/31/94 B.P. 8/31/94 MMM 674.73 00/ AND DS#14 REPAIR

Environmental Sect 'ty Services, Inc.

REPAIR REPORT

PAGE __3___ OF _3

PROJECT NAME: Strippit PROJECT NUMBER: _____ MATERIAL DESCRIPTION: **FIELD** PANEL REPAIR REPAIR MACHINE **TEST TEST** TEST LOCATION / COMMENTS SEAM # NUMBER DATE NO. DATE **CREW** CREW PIF -Air-tEst-BEPAIR-70 76277 8/31/84 HM 001 8/31/94 HM -Air TEST BEPAIR --8/31/94 HM 8/31/94 HM 71 774 78 001 __ALA_TES+_REPAIR____ 8/31/94 HM 8/31/94 HM 72 78+79 _Aid_test_Repair__ 29+80 8/31/94 HM 8/31/94 HM 73 001 EXTRUSION WELD CORNER 8/31/84 HM 8/31/84 HM 74 80 00/

ASTM D4437 PEEL TEST RESULTS

MALCOLM PIRNIE, INC.

Project: Strippit Lan**d**fill Client: Day Engin**eeri**ng

DATE TESTED: 8-26-94 THROUGH 8-30-94

TYPE OF LINER: HDPE

TYPE OF SEAM: Double Fusion

TEMPERATURE AT TESTING TIME: 69 DEGREES F

RELATIVE HUMIDITY AT TESTING TIME: 45%

PTB=Film Test Bond

NPTB=Non Film Teat Bond

SAMPLE		SPECIMEN	WIOTH OF SPECIMEN, IN		LOAD	LBS	ADHESION V.	alue, ppi	TYPE OF B	reak	PASSIFAIL		
	UMBER	NUMBER	WELDI	WELD 2	WELD !	WELD 2	WELD I	WELD 2	WEITD !	WELD 2	WELD I	WELD 2	
25		1	1.007	1.007	89	54	84.4	63.6	PTB	FTB	P	P	
		2	1.008	1.004	\$ 5	67	\$7.3	66.5	PTB	FTB	P	P	
		3	1,007	1.007	16	62	\$5,4	61.6	PTB	PIB	P	P	
	į		1.007	1,007	85	63	84.4	62.6	PTB	PTB	P	P	
	ĺ	Š	1.005	1.001	83	63	\$7.3	62.5	FIB	PTS	Р	P	
		AYQ	1,007	1,007	87	54	8c.6	6J. 3					
	}	STO DEV.	0.000	0.000	1,470	1.720	1.441	1.690	1				
			1.007	1.007	94	\$ 6	93.3	65.5	PIL	FIB	P	P	
DS	5.2) 7	1.010	1.010	19	62	\$5.1	61.4	FTB	FIE	۶.	P	
-		2	1,010	1.010	89	63	92.1	62,4	PIB	हाउ	P	P	
		4	1.007	1.007	\$6	71	85.4	70.5	FID	PIB	P	P	
ł		5	1.007	1.007	86	79	85.4	71.5	PTB	PIB	Р	P	
		AVO	1.004	1.008	89	65	88.1	67.7					
		STD DEV.	0.001	ō,00t	2.928	6.242	2.901	6.266					
		1	1.009	1.009	92	56	91.2	65.4	773	इन्छ	p	P	
	3- 3	,	1,009	1.009	91	70	90.2	69.4	178	578	P	P	
			1.008	1,008	92	72	91,3	71.4	PTB	स्रक	P	P	
1			1.00\$	1.008	93	65	97.3	67.5	PTB	FTB	P	Þ	
			1.011	1.011	95	71	94.0	70.2	PTB	FTR	P	P	
		AVQ	1.009	1.009	93	104	91.8	68.8					
		STD DEV.	0.001	0.001		2.154	1.278	2.124		<u> </u>		1	
=			1.009	1.009	86	66	85.2	65.4	P73	PIB	P	P	
٦	S-4	1	1.011	1.011	88	61	\$7.0	60.3		P13	P	*	
▋		,	1.001	1.008	19	63	48.5	62.5	PTB	PTB	P	P	
_			1.008	1.008		62	1	61.5		27 5	Р	P	
		,	1.004	1.004	92			62.7	BTG	FTB	P	P	
		AVO	1.008	1.008			+	62.5					
		STD DEV.	0.003	0.002				1.685					
		1	1.009	1.009	+	+		72.3	PYB	778	P	P	
	0.5-5		1.013	1.013		1	,	75.0	1	₽7B	Р	P	
		, ,	1.006	1.006	}			68.6	מדק :	FIB	P	P	
		,	1.015	1.015)	1		53.1	PTB	भार	P	P	
		5	1.009	1.009			\$4.2	65.4	PTS	FTS	p	P	
		AVO	1.010			70	81.1	68.9					
		STD DEV.	0.000	1	1	1	3.110	4.371	1			!	

ASTM D4437 SHEAR TEST RESULTS

MALCOLM PIRNIE, INC.

PROJECT: STRIPPIT LANDFILL CLIENT: DAY ENGINEERING DATE TESTED: 08-26-94

THROUGH 08-30-94

TYPE OF LINER: HDPE

TYPE OF SEAM: DOUBLE FUSION

TEMPERATURE AT TESTING TIME: 72 degrees F RELATIVE HUMIDITY AT TESTING TIME: 48%

FTB=Film Tear Bond NFTB=Non Film Tear Bond

		FIE		FIB=Film Teer Bond	With SHOUL Land	100 2000	
			MAXIMUM	Breaking Pactor	ELONGATION	TYPE	
SAMPLE SPECIMEN		HTOTH	LOAD	MAX LOAD/ORIG WIDTH	at break	O.F	PASS/FAIL
NUMBER	NUMBER	DN.	LBS	शर	*	BREAK	
D5-1	1	1.007	1)6	115.7	100	PTB	۶
	2	1.011	115	113.7	100	FTB	P
	3	1.012	115	115.6	100	פדק	P
	4	1.013	116	114.5	100	PTB	P
	5	1.019	116	113.8	100	PTB	P
	AVG	1.012	116	114.2	100		
	אַלָּט מַדָּט	0.004	0.490	0.539	0.000		
DS-2	1	1.012	114	112.6	100	PTB	P
2 0 .	2	1,011	115	111.8	100	פצק	P
	3	1.011	115	113.7	1∞	PTB	P
		1.007	114	113.2	100	FIB	P
	5	1.011	115	113.7	100	FTB	P
	AVO	1.010	114	119.0	100		-
	STO DEV.	0.000	0.748	0.748	0.000		
D5-3	1	2.009	117	116.0	91	PTB	P
•	2	1.005	115	114.1	73	PTB	P
	3	1.007	116	115.2	79	FIB	P
		1.012	115	113.6	79	FTE	P
	5	1.007	115	114.2	77	PTB	P
	AVG	1.009	115	114.6	100		
	STD DEV.	0.007	0.800	0.843	5.987		
DS-4	1	1.026	117	114.0	100	PIB	P
50 1	2	1.009	117	115.0	100	ELL	P
	3	1.019	113	110.5	100	हाष	P
	•	1.007	115	114.2	100	מדק	P
	5	1.008	113	117.1	100	275	Р
	AVO	1.014	115	113.4	100		
	STD DEV.	0.007	1.789		0.000		
D9-5	1	1.009	117	116.0	100	PTB	P
₽ ** •	2	1.010	115	1	100	FTB	P
	3	1.014	1		100	PTB	P
	4	1.011	1	1	100	PTB	P
	5	1.010	1	113.5	100	PYB	P
	AVO	1.011	116	114.	100		1
	STO DEV.	0.002	1	0,90	0.000		

ASTM D4437 PEEL TEST RESULTS

MALCOLM PIRNIE, INC.

PROJECT: STRIPPIT LANDFILL CLIENT: DAY ENGINEERING

DATE TESTED: 8-26-94 THROUGH 8-30-94

TYPE OF LINER: HDPE

TYPE OF SEAM: Double Pusion

TEMPERATURE AT TESTING TIME: 69 DEGREES F

RELATIVE HUMIDITY AT TESTING TIME: 45%

PTB=Pilm Tear Bond

NFTB=Non Füm Teer Bond

		AR OPE	CDARW IN	LOAD.		ADHESION YA	LUE, PPI	TYPE OF BI	PASSIFAIL		
Sample	SPECIMEN	WIDTH OF SPE	WELD 2	WELD	METD 5	WELD !	WELD 2	WELDI	WELD 2	WELDI	WEL
NUMBER	NUMBER	WELD !		54	68	83.5	67.6	FTB	ELB	P	1
)-b	1	1.006	1.006	84	58	83.5	67.6	FTB	PTS	P] :
	2	1.006	1.006	id.	20	85.0	69.7	FTB	FIB	P	
	3	1.005	1.005	1	70	86.7	69.7	FIE	FTE	P	
] 4	1.004	1.004	87	69	85,4	68.5	PIB	PTS	P	1
	5	1.007	1.00/	86	69	84.9	68.6	1			
	AVG	1.005	1.006	85	0.894	1.241	0.937	}			
	אדם מדט	0,001	0.001	1.200		76.5	82.5	PTB	FUB	P	
D-7	ı	1.006	1.006	77	83	90.0	79.1	278	PTB	P	
	2	1.011	1.011	91	80	82.5	80.5	}	FTB	P	
	3	1.006	1.006	15	81	93.5	76.6		PIB	P	
	4	1.005	1.005	94	77	35.2	74.3		FIR	у	<u> </u>
	5	1.009	1.009	8.5		35.6	78.6				
	AVO	1.007	1.007	\$6	}	5.902	2.876	1			
	עצם פדצ.	0,007	0.002	5.980					PTB	2	-
D-8	1	1.004	1.004	88	Į	\$7.6	60.8 59.7	1	FTS	p	
	2	1.005	1.005	88	1	\$7.6		1	מזק		1
	3	1.003	1.003	81	ŀ	80.8	62.1		PIB	P	
	4	1.003	1 005	36	1	15.6	66.6		MIB	р	}
l	3 _	1.003	1.003	84		13.7			1	 	+
	DVA	1,004	LOS	1 85		85.1	68.3	1			
†	STO DEV.	0,001	\$.001	2.65	9,728	2.587	9.63		-	P	-
D-9	1	1.005	1,005	9	70	93.5	69.	Ì	PIS	P	
	2	1,001	1.001	8	66	\$8.9	1	1	PTB	į	Ì
	3	1.006	1.006	9.	5 67	94.4	1		PTS	P	
	4	1.000	1,006	. 8	g 83	\$7.5	1	- 1	FIB	7	-
	5	1.004	1.000	9	4 87	43.4	_		FIB	P	-
	AVO	1.003	1.00	9	2 7:	91-6	1	ì			}
	STD DEV.	0.00	0,00	2.89	8 4.69	2.800	8.56				
D-10	1	1.00	1,00	3	5 7	\$5.0	1		513	P -	
D-10	2	1.00	·	5 4	17 6	·	3	- 1	PTE	Р	
1	•	1.00		1	01 6	ļ	1		FTB	Р	
		1.∞		4 1	19 7	1		t	L13	у	
1	5	0.99	0.99	9	× 7	6 90.			PTS	P	
	AVQ	1.00	3 1.00	3	** {	0 38.	. `	1		ļ	
	STD DEV.	0.00	∞ 0.∞	2 1.8	55 2.85	7 1.96	1 4 2.9	52			-

ASTM D4437 SHEAR TEST RESULTS

MALCOLM PIRNIE, INC.

PROJECT: STRIPPIT LANDFILL CLIENT: DAY ENGINEERING

DATE TESTED: 08-26-94 THROUGH 08-30-94 TYPE OF LINER: HDPE

TYPE OF SEAM: DOUBLE FUSION

TEMPERATURE AT TESTING TIME: 72 degrees P RELATIVE HUMIDITY AT TESTING TIME: 48%

NFTB=Non Film Tear Bond FTB=Film Tear Bond ELONGATION TYPE MUMIXAM BREAKING FACTOR at Break OF PASSAPAIL MAX LOADIORIG WIDTH SPECIMEN WIDTH LOAD SAMPLE BREAK LBS PFI HUMBER IN. NUMBER 100 PTB 111.6 1,004 112 D-6 1 PTE 100 111.1 2 1.008 112 100 TTB 113.1 1.008 114 100 MIS P 113.3 1.006 114 100 FTB 113.3 1.006 114 100 112.5 1.006 113 AVG 0.951 0,000 STO DEV. 0.980 0.001 PTB 100 105.2 109 1.007 D-7 100 PTB 110.1 1.005 111 2 100 PIB Þ 111.1 1,008 112 PTB P 100 112.2 1.007 113 FTB P 100 1,001 111 110.1 100 110.4 1.008 111 AVG 0.000 1.312 1.377 מדם מדע. 0.000 113.1 100 FTB P 114 1.008 D-8 FTB 100 ۲ 114.2 115 1.007 2 מדיז 113.2 100 1.007 114 107.2 ئد FIB P 108 1.007 P 100 FTB 112.6 1.012 114 17 112.1 1.003 113 AVO 26.680 2.464 STO DEV. 0.002 2.530 100 MTB P 114.1 1.001 115 1 D-9 100 PTB 109.6 1.013 111 2 too PTB 109.2 110 1.007 100 PTB 1.003 110 109.1 ıω PTS 112.1 1.008 113 110.8 100 112 AVO 1.009 0.000 1.962 STD DEV. 0.002 1.939 100 PIR 105.2 P 1.001 106 100 PTB 108.1 1.00\$ 109 100 TTD 109.3 110 1,006 FIB 112.2 100 P 113 1.007 100 113.2 מוץ p 1.007 114 100 109,6 DVA 1.007 110 0,000 2,891 100.0 2.871 STO DEV.

ASTM D4437 PEEL TEST RESULTS

MALCOLM PIRNIE, INC.

PROJECT: STRIPPIT LANDFILL CLIENT: DAY ENGINEERING

DATE TESTED: 8-26-94 THROUGH 8-30-94

TYPE OF LINER: HDPE

TYPE OF SEAM: Double Fusion

TEMPERATURE AT TESTING TIME: 69 DEGREES F

RELATIVE HUMIDITY AT TESTING TIME: 45%

FIB=Film Tear Bond

NFTB=Non Film Tear Bond

0114048	SPECIMEN	WIDTH OF SPE	CMPN IN	LOAD	L95	AV HOISSHON VA		TYPE OF B	RBAK	Pass/Pail		
SAMPLE	NUMBER	WELD !	WELD 2	WELDI	WELD 2	WBLD !	WELD 2	WELD 1	WELD 2	WELD I	WELD	
NUMBER	NOMBER	1.004			80	78,7	79.7	PTB	FTB	P	9	
D-11	·	1.005	1.005	8-6	83	15 .6	\$2.6	PTB	₽TB	P	P	
	2	1.004	1.004	8.2	15	81.7	74.7	PTB	PTS	٩	P	
	3	1.003	1.003	\$1	77	\$0.8	76.2	PTB	PTB	P	P	
		1.006	1.006	84	68	\$3.5	67.6	PTS	FIB	P	P	
	· · · · · · · · · · · · · · · · · · ·	1.004	1.004	82	17	\$2.0	76.3			1		
	AYO	1	0.001 0.001 2.417 5.043 2.351	5.090	{	}						
	STD DEV				-	92.5	70.6	FTB	PIB	P	P	
D-12	1	1,005	1.005 1.006	93	71	90,5	74.6	FTB	P18	P	•	
	2	1,006		98	74	97.6	73.7	PTB	PTS	P	7	
	3	1.004	1,004 1,606	9ei	73	95.4	72.6	773	FIB	P	P	
		3,004	1.004	93	72	92.6	71.7	1	PTS	P	P	
	5	1.005	1.005	94	73	93.7	72.6					
	STD DEV.	0.001	0.001	2.482	1,414	2.501	1.385					
TARREST THOMAS ASS	BID DEV.			91	73	90.6	72.7	PIB	FTB	Р	P	
D-13	1	1.004	1.004	1	73	88.3	70.9	FIB	PTB	P	P	
	2	1.030	1,030	91	74	92.1	71.8	775	213	P	P	
	3	1.031	1.031	95		92.5	81.6	PTS	FTS	P	P	
	+	1.005	1.005	93	#2 m	89.5	81.5		PTR	P	•	
†	5	1.006	1.006	<u> </u>	\$2	90.6	75.7	·	-		 -	
	AVG	1.015	1.015	92	108		4,819	1				
	STD DEV.	0.013	0.013	-	4.261	1.581			700	P	P	
D-14	1	1.004	1.004	15	71	17.6	70.7		PTB	P		
	2	0.996	0.996	8.5		\$ 5.3	74.3	1	FIB	P		
	3	1.008	1.008	i	n	8 4-3	71,4		PTB		P	
	4	1.005	1.005	1	1	1	65.7		PIZ	P	P	
1	5	1.007	1.0077	 		 	69.5	+	PTB	P	+	
	YAQ	1.004	1.004		l .		70.9	}			-	
1	STD DEV.	0.004	9,004	2.059	1.720	1.711	1.939	1	J			

ASTM D4437 SHEAR TEST RESULTS

MALCOLM PIRNIE, INC.

PROJECT: STRIPPIT LANDFILL CLIENT:DAY ENGINEERING

DATE TESTED: 08-26-94 THROUGH 08-30-94 Type of Liner: HDPE

TYPE OF SEAM: DOUBLE FUSION

TEMPERATURE AT TESTING TIME: 72 degrees F RELATIVE HUMIDITY AT TESTING TIME: 48%

				PTB=Pilm Test Bond	NFTB=Noa Film T	eer Bond	
SAMPLE	SAMPLE SPECIMEN		MAXIMUM LOAD	Breaking Pactor Max Load/Orks Width	elonoation at dreak	Type op	Passpail
NUMBER	NUMBER	WIDTH M.	LBS	PP1	*	DREAK	
D-11	1	1.009	109	108.0	37	PTB	p
	2	1.005	68	67.7	98	ETY	F
	3	1.007	111	110.2	100	FIB	P
	4	1.007	110	109.2	300	FT8	?
	5	1.007	125	127.1	100	מזץ	р
	DVA	1,007	105	104.5	8 7		
	STO DEV.	0.001	19.874	19.677	25.239		
D-12		1,005	74	73.6	100	PTB	F
	2	1.004	112	111.6	700	PTD	P
	3	1.006	114	113.3	100	PTB	P
	4	1.006	114	113.3	100	FTB	P
	5	1.005	115	114.4	100	माह	Р
	AVO	1.005	106	105.3	100		
	אדם מדע.	0.000	15.990	15.836	0.000		
Q-13	1	1.006	108	107.4	100	PTB	P
	2	1.011	111	109.8	100	वरन	P
	3	1.010	111	109.9	100	टा प	P
	4	1.009	111	110.0	100	FTB	P
	5	1.007	112	111.2	100	धात	P
	AYQ	1,009	:1:	109.7	100		
	STD DEV.	0.002	1.956	1.251	0.000		
D-14	1	1.009	113	112.0	100	PTB	ρ
- ••	2	1.007	113	112.2	100	PTB	P
	3	1,010	132	130.7	100	धाप	Р
	4	1.009	113	112.0	100	हाउ	P
	5	1.006	1(4	113.1	100	FTB	7
	DVA	1.009	117	116.0	100		
	STD DEV.	0.001	7.510	7.359	0.000		

APPENDIX F

Petroleum-Contaminated Soil

Evaluation and Analytical Rest Results

PETROLEUM-CONTAMINATED SOIL EVALUATION AND REMOVAL

August 29, 1994

During excavation of the geomembrane anchor trench on the west side of the site (see Figure 4), petroleum-contaminated soil was encountered at a depth of about 2.5 feet below the ground surface. This soil appeared to extend to a depth of about 5 feet, but it's lateral extent (i.e., along the trench and to the west) was not determined at this time. Since no air monitoring equipment was on site, it was decided to stop work in the area until such equipment could be provided.

August 30, 1994

Initially, a HNU Model HW-101 photoionization detector (PID) with a 10.2 eV bulb and a Century OVA Model 128GC falme ionization detector (FID) were calibrated in preparation for the evaluation of the petroleum-contaminated soils. During excavation, a sample of petroleum-contaminated soil from the anchor trench was collected and placed in a clean glass sample container. Following equilibrization a headspace sample was collected from the jar and tested. The resulting readings were:

PID = 38 ppmFID = 126 ppm

The petroleum-contaminated soil was then removed from the anchor trench and placed in a stockpile area to the west. [Note: Plastic sheeting and/or excess 40 mil HPDE geomembrane from the IRM construction was placed on the ground surface and a surrounding soil berm was constructed to contain the stockpile.]

Following excavation of obvious petroleum-contaminated soil from the anchor trench a confirmatory sample was collected from the invert of the trench. This sample, collected at a depth of 5.3 feet below the ground surface, was tested in the field using the potable equipment. The results of the headspace screening of the confirmatory soil sample are summarized below:

PID = no detection FID = 1.3 ppm

Subsequently, a composite sample of the petroleum-contaminated soil and a confirmatory sample of "clean" soil from the invert of the anchor trench were delivered to ACTS Testing Laboratory, Inc. on August 31, 1994. These samples were tested to evaluate the nature of the material and requirements for its disposal (see analytical data in this appendix).

Based upon the screening results and visual observation, it was decided by Day and NYSDEC that sufficient soil had been removed to allow anchor trench construction. Therefore, the contractor was instructed to add additional geomembrane (i.e., to account for the additional soil removed) so that it would extend throughout the anchor trench. Following placement of the geomembrane, the anchor trench was backfilled with the glacial till used as barrier protection material. The anchor trench was backfilled in 8-inch thick loose lifts and compacted using hand-held compaction equipment.

September 16, 1994

Petroleum-contaminated soil located west of the anchor trench (i.e., within the limits of a haul road used to deliver soil fill for the cap system) was excavated and placed on the stockpile. A PID and FID were used to screen soils to evaluate the extent of removal required. Based on this evaluation, approximately 75 cubic yards of material were removed from depths of about 2 to 5 feet below the ground surface. During this removal, apparent contamination was detected in an approximate ten foot wide, or less, section along the western property line. The distance that this material extends off-site was not evaluated of this time.

September 21, 1994

An approximate 4 to 8 feet wide (ranging from about 1.5 to 3.5 feet below the ground surface), section of petroleum-contaminated soil was excavated beginning at the western property line. Based on field observations and screening results, this material extended a distance of about 12 feet west of the property line. Following removal of about 10 cubic yards of contaminated soil, the area was backfilled with barrier protection soil and compacted.

October 19, 1994

Strippit, Inc. retained Waste Technology Services (WTS) to coordinate the removal and disposal of the petroleum-contaminated soil. WTS, in turn, retained Modern Landfill, Inc., Lewiston, New York to dispose of the material at their facility. An executed copy of the NYSDEC's "Application for Treatment for Disposal of an Industrial Waste Stream" is included in this appendix. Following acceptance of the waste, the petroleum-contaminated soil was transported to Modern Landfill, Inc., Lewiston, New York and disposed on this date. As indicated by the copies of weight tickets provided (included in this appendix), a total of 143.65 tons of petroleum-contaminated soil was disposed of at Modern Landfill, Inc.



ACTS TESTING LABS, INC.

25 Anderson Road Buffalo, NY 14225-4928 Tel (716)897-3300 Fax (716)897-0876

Technical Report 4B-4129ER File # Stripp-94-2430R REVISED REPORT September 16, 1994 Page 1 of 5

Mr. Ray Kampff
DAY ENGINE ERING, P.C.

SUBJECT:

Analysis of one (1) soil sample for various parameters. The sample was received on August 31, 1994.

RESULTS

On Pages Two through Five.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil was determined according to United States Environmental Protection Agency Method 3540: Soxhlet Extraction and Method 8080: Organochlorine Pesticides and PCBs.

Semi-volatile Organics in soil was determined according to Snited States Environmental Protection Agency Method 8270: Semi-volatile Organics.

Volatile Organics in soil was determined according to United States Environmental Protection Agency Method 8260: Volatile Organics.

The Toxicity Characteristic Leaching Procedure for Metals was determined as defined in Title 40, Code of Federal Regulations, Part 268, Appendix 1. The Toxicity Characteristic Leaching Procedure was conducted according to "Test Methods for the Examination of Solid Waste Physical/Chemical Methods", EPA SW-846.

The remaining analysis was determined according to United States Environmental Protection Agency "Methods for Chemical Analysis of Water and Wastes", March 1983.

Petroleum Products in soil was determined according to New York State Department of Health modified procedure 310-13: Petroleum Products in Water.

ACTS TESTING LABS, INC

Charles E. Hartke

Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor Wet Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor Gas Chromatography Laboratory

cme

Our reports and letters are for the exclusive use of the client to whomswhich they are addressed. Communication of ACTS Testing Labs, Inc. reports and letters to any others and/or use of the name of ACTS Testing Labs, Inc. requires our prior written approval. Our letters and reports are timited solely (i) to standards and procedures identified in them and (ii) to the sample(s) tested. Test results are not necessarily indicative not representative (i) of the quality of the lot from which the sample was taken or (ii) of apparently similar or identifical products. Unless otherwise stated, it is the responsibility of the client to insure the representativeness of the samples submitted to ACTS Testino Labs. Inc. for testing.



RESULTS:	ACTS #4 B-4129E		
	2430-08314-AT1	TCLP Blank	TCLP Limit
TCLP Metals			
Arsenic	LT 0.05	LT 0.05	5.0
Barium	6.22	LT 0.0 05	100.0
Cadmium	0.010	LT 0.005	1.0
Chromium	0.01	LT 0.01	5.0
Lead	LT 0.03	LT 0.03	5.0
Mercury	LT 0.0002	LT 0.0002	0.2
Selenium	LT 0.12	LT 0.12	1.0
Silver	0.021	LT 0.00 5	5.0

LT = Less Than

The results are reported as milligrams per liter (mg/L)

Petroleum Hydrocarbons (418.1)

0.085

Result is reported as % by weight.

Petroleum Hydrocarbons (310-13): Gasoline - None detected

Lubricating Oils - None detected

Kerosene 1.39

Fuel Oil LT 0.01

LT 76.0 (LT 76.0)*

1000.0 (910.0)*

LT=Less Than

Hexachlorobutadiene

2-Methylnaphthalene

EPA 8270

Results are repored as microliters per gram (uL/g) or parts per thousand.

N-Nitroso-dimethylamine	LT 76.0 (LT 76.0)*
Bis (2-chloroethyl) ether	LT 38.0 (LT 38.0)*
1,3-Dichlorobenzene	LT 38.0 (LT 38.0)*
1,4-Dichloro be nz en e	LT 38.0 (LT 38.0)*
1,2-Dichlorobenzene	LT 38.0 (LT 38.0)*
Bis (2-chloro is opropyl) ether	LT 38.0 (LT 38.0)*
N-Nitroso-di -n -p ro pylamine	LT 38.0 (LT 38.0)*
Hexachloroe th an e	LT 38.0 (LT 38.0)*
Nitrobenzen e	LT 38.0 (LT 38.0)*
Isophorone	LT 38.0 (LT 38.0)*
Bis (2-chloroethoxy) methane	LT 38.0 (LT 38.0)*
1,2,4-Trichlo ro benzene	LT 38.0 (LT 38.0)*
Napthalene	210.0 (180.0)*
4-Chloroanil in e	LT 38.0 (LT 38.0)*



ACTS #4B-4129E 2430-08314-AT1

	T T 000 0 (T T 000 0) +
Hexachlorocyclopentadiene	LT 380.0 (LT 380.0)*
2-Chloronaphthalene	LT 38.0 (LT 38.0)*
2-Nitroaniline	LT 38.0 (LT 38.0)*
Dimethylphthalate	LT 38.0 (LT 38.0)*
Acenphthylene	LT 38.0 (LT 38.0)*
2,6-Dinitroto lu ene	LT 38.0 (LT 38.0)*
Acenaphthen e	LT 38.0 (LT 38.0)*
3-Nitroanilin e	LT 76.0 (LT 76.0)*
Dibenzofura n	LT 38.0 (LT 38.0)*
2,4-Dinitroto lu en e	LT 38.0 (LT 38.0)*
Diethylphtha la te	160.0 (180.0)*
Fluorene	LT 38.0 (LT 38.0)*
4-Nitroanilin e	LT 76.0 (LT 76.0)*
4-Chlorophenyl phenyl ether	LT 76.0 (LT 76.0)*
N-Nitrosodiphenylamine	LT 38.0 (LT 38.0)*
4-Bromophenyl phenyl ether	LT 38.0 (LT 38.0)*
Hexachlorobenzene	LT 38.0 (LT 38.0)*
Phenanthren e	LT 38.0 (LT 38.0)*
Anthracene	LT 38.0 (LT 38.0)*
Carbazole	LT 38.0 (LT 38.0)*
Di-n-butyl phthlate	LT 38.0 (LT 38.0)*
Fluoranthene	LT 38.0 (LT 38.0)*
Pyrene	LT 38.0 (LT 38.0)*
Butyl benzyl phthalate	99.0 (LT 38.0)*
Benzo(a)anthracene	LT 38.0 (LT 38.0)*
3-3'-Dichloro b enzidine	LT 76.0 (LT 76.0)*
Chrysene	LT 38.0 (LT 38.0)*
Bis (2-ethylh ex yl) p hthlate	120.0 (70.0)*
Di-n-octyl phthlate	LT 38.0 (LT 38.0)*
Benzo(b)fluoranthene	LT 38.0 (LT 38.0)*
Benzo(k)fluoranthene	LT 38.0 (LT 38.0)*
Benzo(a)pyr en e	LT 38.0 (LT 38.0)*
Indo(1,2,3-cd) pyrene	LT 38.0 (LT 38.0)*
Dibenz(a,h)anthracene	LT 38.0 (LT 38.0)*
Benzo(g,h,i)perylene	LT 38.0 (LT 38.0)*

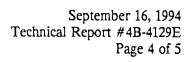
LT = Less Than

*= Duplicate results
Results are reported as micrograms per kilogram (ug/Kg).

EPA 8260

Dichlorodifluoromethane	LT 0.6 (LT 0.6)*
Chlorometha n e	LT 0.6 (LT 0.6)*
Choroethane	LT 0.6 (LT 0.6)*
Bromometha ne	LT 0.6 (LT 0.6)*
Vinyl chloride	LT 0.6 (LT 0.6)*
Trichlorofluoromethane	LT 0.6 (LT 0.6)*
1,1-Dichloroethene	LT 0.6 (LT 0.6)*
Methylene Chloride	16.0B (19.0B)*

B=Found in Method Blank at 19.0 ug/Kg.





Era 8260 (con't):	ACTS #4B-4129E
	2430-08314-AT1
Trans 1,2-Dichloroethene	LT 0.6 (LT 0.6)*
1,1-Dichloroethane	LT 0.6 (LT 0.6)*
Cis 1,2-Dichloroethene	LT 0.6 (LT 0.6)*
2,2'-Dichloropropane	LT 0.6 (LT 0.6)*
Bromochloro m eth a ne	LT 0.6 (LT 0.6)*
Chloroform	6. 7 (9.9)*
1,1,1-Trichlor o ethane	LT 0.6 (LT 0.6)*
1,1-Dichlorop r op en e	LT 0.6 (LT 0.6)*
Carbon Tetrachloride	LT 0.6 (LT 0.6)*
1,2-Dichloroethane	LT 0.6 (LT 0.6)*
Benzene	LT 0.6 (LT 0.6)*
Trichloroethe n e	LT 0.6 (LT 0.6)*
1,2-Dichloropropane	LT 0.6 (LT 0.6)*
Dibromometh a ne	LT 0.6 (LT 0.6)*
Bromodichlo ro m eth ane	LT 0.6 (LT 0.6)*
Toluene	8.8 (17.0)*
cis-1,3-Dichlo r opropene	LT 0.6 (LT 0.6)*
1,1,2-Trichlor o eth a ne	LT 0.6 (1.4)*
1,3-Dichloropropane	LT 0.6 (LT 0.6)*
Tetrachloroethene	8.7 (9.2)*
Dibromochlo ro m et hane	LT 0.6 (LT 0.6)*
1,2-Dibromomethane	
Chlorobenzen e	LT 0.6 (LT 0.6)* LT 0.6 (0.5)*
1,1,1,2-Tetrachloroethane	LT 0.6 (3.2)*
Ethylbenzene	1.0 (12.0)*
M,P-Xylenes	13.0 (15.0)*
O-Xylene	10.0 (13.0)*
Styrene	LT 0.6 (LT 0.6)*
Bromoform	LT 0.6 (LT 0.6)*
Isopropylben ze ne	2.4 (2.5)*
1,1,2,2-Tetrachloroethane	LT 0.6 (LT 0.6)*
1,2,3-Trichloropropane	LT 0.6 (LT 0.6)*
Bromobenzen e	LT 0.6 (LT 0.6)*
n-Propylbenz en e	6.5 (6.8)*
2-Chlorotolu en e	LT 0.6 (LT 0.6)*
	50.0 (61.0)*
1,3,5-Trimeth yl be nz ene 4-Chlorotolu en e	LT 0.6 (LT 0.6)*
tert-Butylbenzene	LT 0.6 (LT 0.6)*
	160.0 (200.0)*
1,2,4-Trimeth yl be nz ene sec-Butylben ze ne	14.0 (16.0)*
	21.0 (23.0)*
p-Isopropylto lu en e	LT 0.6 (LT 0.6)*
1,3-Dichlorob e nz en e 1,4-Dichlorob e nzene	LT 0.6 (1.0)*
n-Butylbenze ne	21.0 (24.0)*
1,2-Dichlorob e nz en e	LT 0.6 (LT 0.6)*
	, ,
1,2-Dibromo- 3- ch lo ropropane 1,2,4-Trichlor o benzene	3.3 (3.8)* LT 0.6 (LT 0.6)*
Hexachlorobutadiene	LT 0.6 (LT 0.6)*
Naphthalene	70.0 (87.0)*
1,2,3-Trichlor o benzene	LT 0.6 (LT 0.6)*
Tremorouciizeite - الوعوة	LI OW (FI OW)

LT=Less Than

*= Duplicate results
Results are reported as micrograms per kilogram (ug/Kg).



September 16, 1994 Technical Report #4B-4129E Page 5 of 5

EPA 8080 (PCBs only)

Polychlorinated Biphenyls as:

Arochlor-1016	LT 0.094
Arochlor-1221	LT 0.094
Arochlor-1232	LT 0.094
Arochlor-1242	LT 0.094
Arochlor-1248	LT 0.094
Arochlor-1254	0.91
Arochlor-1260	LT 0.094

LT = Less Than

Results are reported as micrograms per gram (ug/g).

CHAIN-OF-CUSTODY RECORD

ſ	•								•			~	10	19	A	NAL	YSES	RE	QUIR	RED			
	Station Number	Time (24 hr.)	Container ID	Sampler ID	,	Location Description		Sample Type	/			810° (PA /	//						INSITU- MEASUREMENT	44	Note
JAE.	50	94 T	URN		2430-0	8314	-ATI	50:1		\{\bar{\}}	X	X	X								PID=38ppm FID=136pp	76	1
1306	10 I	AY Z			2430-	08319	1-AT2	501		$\langle \rangle$	$\langle X \rangle$		_	+	-	+-		-		-	PID=ND FID=13	4	
		263.5											-										
}															+								
}																							
										-	-		-			-							
		·	TOT	AL NUM	BER OF CON	TAINERS																	
		,	BY: (Signa	")/	DATE/TIME	REGE	IVED BY: (S		NOI		20	ת חמ	oa	5,.2	/e	<u></u>	911	ו מנ	les	. ,	from contains	-5	•
	MELANC	UISHED	BY: (Signa	atur	DATE/TIME	RECE	IVED BY: (S																
	RELINC	UISHED	BY: (Signa	ature)	DATE/TIME	RECE	IVED BY: (Signature)	TPH VIA 310-13														
	RELING	UISHED	BY: (Signa	ature)	DATE/TIME	RECE	IVED BY: (Signature)															
			BY: (Signa		DATE/TIME		EIVED BY: (75 Cont. A	··
ļ	LABOR	NALYTICAL LABORATORY: ACTS Testing Labs ABORATORY CONTACT: 44. Grabouski							DE.			-52	i CIP,	2.9	74-	-29	130	R	P.C	D. NC).		-
;	C	ONTACT: 2	R.Kon 1-59	0/F	DAY EN AN AFFILIAT	VIRONN E OF DAY E	MENTAL NGINEERIN	, INC .	LOC	CATIC	NC												
i					SUITE 210 338 HARRIS	HILL ROAD LLE, NEW Y			DA ⁻	LLEC	TOR.	LLEC	C	م محمد ا	90. 3/	31	S. J	9	Ω. 4	<u>, </u>	DOICHY SHEET OF	/	



ACTS TESTING LABS, INC.

25 Anderson Road Buffalo, NY 14225-4928 Tel (716)897-3300 Fax (716)897-0876

Technical Report 4B-4130E File # Stripp-94-2430R September 16, 1994 Page 1 of 4

Mr. Ray Kampff
DAY ENVIRONMENTAL, INC.

SUBJECT:

Analysis of one (1) soil sample for various parameters. The sample was received on August 31, 1994.

RESULTS:

On Pages Two through Four.

EXPERIMENTAL:

Semi-volatile Organics in soil was determined according to United States Environmental Protection Agency Method 8270: Semi-volatile Organics.

Volatile Organics in soil was determined according to United States Environmental Protection Agency Method 8260: Volatile Organics.

The Toxicity Characteristic Leaching Procedure for Metals was determined as defined in Title 40, Code of Federal Regulations, Part 268, Appendix 1. The Toxicity Characteristic Leaching Procedure was conducted according to "Test Methods for the Examination of Solid Waste Physical/Chemical Methods", EPA SW-846.

ACTS TESTING LABS, INC.

Charles E. Hartke

Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor Wet Chemistry Laboratory

,

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor Gas Chromatography Laboratory

cme

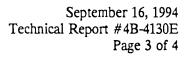
Our reports and tetters are for the exclusive use of the client to whomwhich they are addressed. Communication of ACTS Testing Labs, Inc. reports and letters to any others and/or use of the name of ACTS Testing Labs, Inc. requires our prior written approval. Our letters and reports are limited solely (i) to standards and procedures identified in them and (ii) to the sample(s) tested. Test results are not necessarily indicative energy reports and reports and the following the sample was taken or (ii) of apparently similar or identical products. Unless otherwise stated, it is the responsibility of the client to insure the representativeness of the samples submitted to ACTS Testing Labs, inc. for testing.



RESULTS:	ACTS #4 B-4130E		
	2430-08314-AT2	TCLP Blank	TCLP Limit
TCLP Metals			
Arsenic	LT 0.05	LT 0.05	5.0
Barium	1.35	LT 0 .0 05	100.0
Cadmium	0.009	LT 0.005	1.0
Chromium	LT 0.01	LT 0.01	5.0
Lead	LT 0.03	LT 0.03	5.0
Mercury	LT 0.0002	LT 0.0002	0.2
Selenium	LT 0.12	LT 0.12	1.0
Silver	0.032	LT 0.005	5.0

LT = Less ThanThe results are reported as milligrams per liter (mg/L)

EPA 8270	
N-Nitroso-dimethylamine	LT 73.0
Bis (2-chloroethyl) ether	LT 36.0
1,3-Dichlorobenzene	LT 36.0
1,4-Dichlorob e nze ne	LT 36.0
1,2-Dichlorob en zene	LT 36.0
Bis (2-chloroi so propyl) ether	LT 36.0
N-Nitroso-di- n- pr op ylamine	LT 36.0
Hexachloroethane	LT 36.0
Nitrobenzene	LT 36.0
Isophorone	LT 36.0
Bis (2-chloroethoxy) methane	LT 36.0
1,2,4-Trichlor ob enzene	LT 36.0
Napthalene	LT 36.0
4-Chloroaniline	LT 36.0
Hexachlorobu ta diene	LT 73.0
2-Methylnaph th alene	LT 360.0
Hexachlorocy cl op en tadiene	LT 360.0
2-Chloronaphthalene	LT 36.0
2-Nitroaniline	LT 36.0
Dimethylphth al at e	LT 36.0
Acenphthylen e	LT 36.0
2,6-Dinitrotol ue ne	LT 36.0
Acenaphthen e	LT 36.0
3-Nitroaniline	LT 73.0
Dibenzofuran	LT 36.0
2,4-Dinitrotol ue ne	LT 36.0
Diethylphthal at e	150.0
Fluorene	LT 36. 0
4-Nitroaniline	LT 73.0
4-Chlorophen yl p he nyl ether	LT 73.0
N-Nitrosodiph e ny la mine	LT 36.0
4-Bromophen yl phenyl ether	LT 36.0





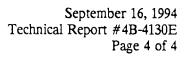
EPA 8270 (con't);	ACTS #4B-4130E 2430-08314-AT2
Hexachlorobe n zene	LT 36.0
Phenanthrene Phenanthrene	LT 36.0
Anthracene	LT 36.0
Carbazole	LT 36.0
Di-n-butyl phthlate	LT 36.0
Fluoranthene	LT 36.0
Pyrene	LT 36.0
Butyl benzyl phthalate	LT 36.0
Benzo(a)anthracene	LT 36.0
3-3'-Dichloro be nzidine	LT 73.0
Chrysene	LT 36.0
Bis (2-ethylhexyl) phthlate	LT 36.0
Di-n-octyl phthlate	LT 36.0
Benzo(b)fluoranthene	LT 36.0
Benzo(k)fluoranthene	LT 36.0
Benzo(a)pyrene	LT 36.0
Indo(1,2,3-cd) pyrene	LT 36.0
Dibenz(a,h)anthracene	LT 36.0
Benzo(g,h,i)perylene	LT 36.0

LT=Less Than

Results are reported as micrograms per kilogram (ug/Kg).

EPA 8260	
Dichlorodiflu orome thane	LT 0.5
Chlorometha ne	LT 0.5
Choroethane	LT 0.5
Bromometha ne	0. 7
Vinyl chloride	LT 0.5
Trichlorofluo ro methane	LT 0.5
1,1-Dichloroethene	LT 0.5
Methylene Chloride	18.0B
Trans 1,2-Dichloroethene	LT 0.5
1,1-Dichloroethane	LT 0.5
Cis 1,2-Dichl or oethene	LT 0.5
2,2'-Dichloro pr op a ne	LT 0.5
Bromochloromethane	LT 0.5
Chloroform	8.5
1,1,1-Trichlor o eth a ne	LT 0.5
1,1-Dichloropropene	LT 0.5
Carbon Tetrachloride	LT 0.5
1,2-Dichloroethane	LT 0.5
Benzene	LT 0.5
Trichloroeth en e	LT 0.5
1,2-Dichlorop r op an e	LT 0.5
Dibromomet ha ne	LT 0.5
Bromodichlo ro methane	LT 0.5
Toluene	LT 0.5

B=Found in Method Blank at 19.0 ug/Kg.





EPA 8260 (con't):	ACTS #4B-4130E 2430-08314-AT2
cis-1,3-Dichl or opropene	LT 0.5
1,1,2-Trichloroethane	LT 0.5
1,3-Dichloropropane	LT 0.5
Tetrachloroe th ene	LT 0.5
Dibromochloromethane	LT 0.5
1,2-Dibromomethane	LT 0.5
Chlorobenzene	LT 0.5
1,1,1,2-Tetrachloroethane	LT 0.5
Ethylbenzen e	1.3
M,P-Xylenes	LT 1.0
O-Xylene	LT 0.5
Styrene	LT 0.5
Bromoform	LT 0.5
Isopropylben z ene	LT 0.5
1,1,2,2-Tetrachloroethane	LT 0.5
1,2,3-Trichlo ro pr op ane	LT 0.5
Bromobenze ne	LT 0.5
n-Propylben ze ne	LT 0.5
2-Chlorotolu e ne	LT 0.5
1,3,5-Trimethylbenzene	LT 0.5
4-Chlorotolu en e	LT 0.5
tert-Butylbenzene	LT 0.5
1,2,4-Trimeth y lb en zene	LT 0.5
sec-Butylben ze ne	LT 0.5
p-Isopropylt ol uene	LT 0.5
1,3-Dichlorobenzene	LT 0.5
1,4-Dichloro be nz en e	LT 0.5
n-Butylbenze n e	LT 0.5
1,2-Dichloro be nz en e	LT 0.5
1,2-Dibromo-3-chloropropane	LT 0.5
1,2,4-Trichlo ro benzene	LT 0.5
Hexachlorobutadiene	LT 0.5
Naphthalene	1.5
1,2,3-Trichlorobenzene	LT 0.5

LT=Less Than
Results are reported as micrograms per kilogram (ug/Kg).

CHAIN-OF-CUSTODY RECORD

	- -					-			•			امد	als	Al	NALY	SES	REQ	UIRE	D			
	Station Number	Time (24 hr.)	Container ID	Sampler ID		Locati Descrip		Sample Type		63 V	30 (1) 30 (1)		PH	<u> </u>		//				INSITU- MEASUREMEN	75 Co	بلجانه
14139E	50	2Y 7	URN		2430-	08	314-AT	1 50:1		$\langle X \rangle$	$X \rangle$	$\langle X \rangle$							P	1D=38ppm FID=12	1990	5 1
(() 2.45	10 5	MAD	UND	/-	2//20	~ ^	21// 07	-2 / 1			\forall			- -		+	+			10-ND 510-12		/
امراندو ا	70 X	AR	DUNG		~ %30	<u>-08</u>	314 -A 7	2 30, 1		X	\bigcap						<u> </u>	-		10=ND F10=13		+
										-				_		_	\downarrow	\sqcup				_
ļ			 											-	 		-		-			\dashv
								·		_												
	· · · · · · · · · · · · · · · · · · ·				 								-	-	+ +	\dashv	+	$\left \cdot \right $				+
				<u> </u>	1											1						
						-											-					
								-		+		-	1	-	1 1	-	+	H				
	}	<u></u>	TOT	AL NUM	BER OF CC	NTAINE	ERS					1		1	1 1	_	_		_			
/		/	BY: (Signa BY: (Signa	<i>, , , , , , , , , , , , , , , , , , , </i>	DATE/TIM DATE/TIM	1 <i>94</i> E	REGEIVED BY	(: (Signature) // (Signature)	NOT J	es: Oro	? ov vra	n p c l rect	35/7 /	le 10 /	Samai	em, Ke	0/1	, es on r	/ 1	com contain rest sample	67 S	•
	RELING	UISHED	BY: (Signa	ature)	DATE/TIM	IE	RECEIVED BY	Y: (Signature)			D L	,				5 7.	^	,	>			
	RELING	UISHED	BY: (Sign	ature)	DATE/TIM	iE	RECEIVED B	Y: (Signature)		//	~/7		U I	a	ঙ	5/0)~	/ \	<i>S</i>			
	RELING	JUISHED	BY: (Sign	ature)	DATE/TIM	IE	RECEIVED B	Y: (Signature)														
							ing Las	\$5		FILE	NO.	Ecy	رموم	9.4-	24	30	R_	P.O.	NO			
					Grabi			· · · · · · · · · · · · · · · · · · ·	PRO	OJEÇ T	·			_						· · · · · · · · · · · · · · · · · · ·		
	C	ONTACT:,	R.Kon 1-59	61	_ <u>DAY E</u> _ an affil		ONMENT DAY ENGINEE			CATIO		-										
					SUITE 21	n			COI	LLECT	OR_	R	X	9 <u>m</u>	pf	Ł,		2.		Dorety	F/	



SOK STATE ON CH. S. S. OCT 12 194 IS PA HOPERN LANDFULL SERVICES, INC. DIVISION OF SOLID AND MAZARDOUS WASTE . SUREAU OF MAZARDOUS WASTE OPERATIONS SITE NO. APPLICATION NO BATE RECEIVED 30 WOLF ROAD, ALBANY, NEW YORK 12222-4087 494.0516 72470 APPLICATION FOR TREATMENT OR DISPOSAL JEN MOITON THEMTERAGED DATE OF AN INDUSTRIAL WASTE STREAM NAME OF THE PARTY OF DOSAMANA 10/12/20 SEE APPLICATION INSTRUCTIONS ON REVERSE SIDE L NAME OF PROJECT/FACILITY & SITE MUMBER & COUNTY MODERN LANDFILL INC Niagara **3**27/30 ` A NAME OF OWNER & ABORISS Buser City, State, Zie Cadel & TELEPHONE NO MODERN LANDFILL INC 4745 MODEL CITY RD, MODEL <u>(716)754-8226</u> T. NUME OF OPERATOR T. ADDALIS Huen, City, Stote, Zie Codel & TELEPHONE NO. RICEARD VASHUTA PLETORER & HAROLD RD. MODEL <u>(716)754-8226</u> 18 METHOD OF TREATMENT OR DISPOSAL 14107 BANITARY LANDFILL - DOG 11. COMPANY GENERATING WASTE 12. ADDRESS OF PACHITY GENERATING WASTE BYOK, City, SING, 2'm Code Strippit, lac. 12979 Clarence Center Rd., Akron, WY 14001 13 REPRESENTATIVE OF WASTE GENERATOR 14. MAILING ADDRESS OF REPRESENTATIVE SE TELEPHONE NO.

R. Johnson 12975 Clarence Center Rd., Akron, WY 14001 716-542-4511 14 DESCRIPTION OF PROCESS PRODUCING WASTE DEC \$178 915053 Excavation of soils contaminated with patroleum hydrocarbon/organics 17. EXPECTED ANNUAL WASTE PRODUCTION ON ESTEET TA. WASTE MAULED IN Mother Domp trailer Callengy TANKTON Rollett Centainer Danima Atult Tank 19. WASTE COMPOSITION 106 Physical State 19c all Runge 20% Lieuid ☐ Studye Mold . Contolined Cas Q SILVEY 12a. Average Persont Sollds CONCENTRATION (DA WHIM) 194 COMPONENTS LINIT (Check and Typical . Upper Wis PPM Louis Soil, stone 99 99 99 Trace organics (see attached analysis) M IN, WAS AN EP TOXICITY TEST CONDUCTED ON THE WASTER 32 MATERIAL IL SO, IS AN ANALYSIS OF WASTE ATTACHED? DN. □No" IT YOU, ABACH MAURA (TCLE) □ Hexardous NON-HEI SHI OUT Z Yes X Yes 3). DETAIL ALL HAZARD AND HUSANCE PROBLEMS ASSOCIATED WITH THE WASTES. LIM notocopy selecy, handling prostrome degrees proceedings.

IL WHERE WAS MATERIAL DISPOSED OF PREVIOUSLY? First time disposal 26. ADORESS (Etter, Elry, State, Zip Code) ES. NYSDEC PERMIT NA M. TELEHONE NO. 18 NAME OF WAITE TRANSPORTER 94-023 716-754-8226 P O Box 209, Model City, Modern Disposel, Inc. M. CERTIFICATION

WIS# 8717

NYSDEC CONTACT: MR. JASPAL WALIA

None

I hereby pities under penalty of parjury that information populated on this form and attached statements and authoris in much best of any knowledge and belief. False statements made hereic are gunlihable as a Class A mindemanar pursuant to Section 210,45 of the Panal Lain.

E SICHATURE AND TITLS OF REPRESENTATIVE OF WASTE CENERATOR XV : C	10/5/94
A SIGNATURE UND TISK OF A PRIS BUT ATIVE OF TREATMENT DA DISPOSAL PACILITY X /// / / / / / / / / / / / / / / / /	DATE
X Miles X 14 Ella - whate mass Countinter	10/10/94.

MODERN LANDFILL INC.	
AN A	TICKET 114707 DATE IN 1 10/19/94 08/25/14
	TRUCH . SAR BATE DUT: 10/19/94 09:43.37
P.O. BOX 209 MODEL CITY, NEW YORK 14107 LANDFILL STR. HAROLD & PLETCHER RD.	HAULER MODERN DISPOSAL
LEWINTON, NEW YORK	QENERATOR: 5116.078 STRIPPITT (WTS)
	12975 CLARENCE CENTER ROAD
JUER TICHET WYS #BBIES9	BILL TO : 6163.000 MODERN DISPOSAL
$\mathcal{A}_{i,j} = \mathcal{A}_{i,j}^{(i)} \mathcal{A}_{i,j}^{(i)}$ (1)	COMMODITY OBOO-0000 BOIL AND DIL CLEANUP
	GROSS WEIGHT: 85, 360. TARE WEIGHT: 34, 320.
	NET WEIGHT: 61,640.
WEIGHMASTER:	TONS: 25.82
unacceptable waste and her been pack federal regulations. Any person accept that Medern Landfill Inc. shall not be damage and also agrees to indemnify	ete stream(a) indicated on this ticket contain(e) no hazardous or kaged and transported in accordance with all applicable state and sting this ticket assumes all risk of accident and expressly agrees. Hable under any circumstances for any injury to person, loss or y and hold harmless Modern Landfill Inc. and its employees. e that I have read and understand conditions or statements
indicated on reverse.	
Signature:	
MODERN LANDFILL INC.	TICKET : 114709 DATE IN : 10/19/94 09:27:42 DATE OUT: 10/19/94 09:44:23
NO. BOX 209 MODEL CITY, NEW YORK 14107	TRUCK 1498 HAULER IMODERN DISPOSAL
LANDRIL SITE -HAROLD & FLETCHER RD LEWISTON, NEW YORK	GENERATOR: 5116.078
	STRIPPITT (WTS) 12975 CLARENCE CENTER ROAD
ALLER TICKET: WTS #BB1669	BILL TO : 6163.000
	MODERN DISPOSAL COMMODITY:0800-0000 BOIL AND DIL CLEANUP
	GROSS WEIGHT: 72,800.
	TARE WEIGHT: 28,700. NET WEIGHT: 44,100.
WEIGHMASTER:	TONS: 22.03
To the best of my knowledge, the w	laste straum (a) indicated on this ficket containis) no nazaruous Q

Signature:

1. . .

- 4 00 1 18 794 18 53 HODER LARDFILL	PESKYLCEZY IN	rech	. Serv	ej ces Liji	
MODERN LANDFILLING		, ,			
X4.24 1 1 1 1 1 1 1 1 1			TICKET :	114788	
			DATE IN A	10/19/9	
P.O. BOX 200 MODEL CITY, NEW YORK 14167 LANDFILL BITE: HAROLD @ PLETCHER RD.	TRUCK	1497 *MDDE	• • •		
LEWISTON, NEW YORK	GENERATO	78 511	8.078 :: *	生活学 计符条符	
		•	STRIPPIT	T (WTS)	ENTER ROAD
HOLER TICKET WTE WAS 1669	BILL TO	. 616		With The M	
HULER FILIE IN G SECTOR			MODERN I	ISPOSAL	
A	COMMODITY	110800	-0000 BDIL	. AND DIL	, CLEANUP
	•	e ^{r r}	GRUSS	WEIGHT:	27. 940.
	. رامه		NET	WEIGHT	50,920.
WEIGHMASTER:		:		TONB	25.45
			- 84 49 4	•	
To the best of my knowledge, the wa	asta stream(s	Indicat	led on this tic	ket contain	a) no nazardous
and had been successful and been been been been been been been be	abered and tri		en in accorden	CE WILL BUT &	こうしょうしゅ きんせんか ごっ
	metana ekila etek	at recui	maa bii maa ot	accident m	「ひらかいしむままり」 出界 (人)
	_ !!^\!_ !!!\!	DOW CITE	BUMSTANCAS M	R SHA NIMUL	A MY THE STATE I AND I
damage and also agrees to indemni	ty and hold hi	eed integ	Modelu Pauc	uiu we auc	120 attibue Lage.
Additionally, I hereby acknowled	ge that i have	read a	ind understa	nd condition	one or statemen
Indicated on reverse.	•	•	•	. •	·
		. :			, ,
Signature:	·				•
<u> </u>		-	·	· ··········	ئەن ئەرسىدە ئەرسىدە دەسەدە دەسە
	والمالية والمالية والمالية والمالية			<u>دستامت</u> میننجری ر	
		•		•	
		•		•	
MODERN LANDFILL INC.		•	:		
		•	TICKET	11472	1
		•	DATE IN		94 09156140
	TRUCK	1499	DHIE OUT	1 101131	94 (10:13)司名
P.O. Box 209 model city, New York 14107 Landfill Bite - Harold & Pletcher RD.	HAULER .		ERN DISPOS	ÄL	
LEWISTON, NEW YORK	GENERATO			•	
	•		BTRIPPI		
		,		LARENCE	CENTER ROAD
	BILL TO	1 51	63. 000 Modern	DISPOSAL	,
HAULER TICKET: WTB #B81669					
HAULER TICKET: WT8 #881669	•	'Y : 080			L CLEANUP
HAULER TICKET: WT8 #881669	•	'Y 1 0 B Q (XD8 • ¢¢¢¢⊷¢ eedre	L AND DI	75,680.
HAULER TICKET: WTB #881669	•	*Y : 080	108 -0000-00 Brobb Tare	L AND DI WEIGHT:	75, 680. 26, 380.
HAULER TICKET: WTB #881669	•	'Y : 080'	108 -0000-00 Brobb Tare	THOISM THOISM THOISM	75,680. 28,380. 48,300.
WEIGHMASTER:	•	Y 1 0 8 0 1	108 -0000-00 Brobb Tare	L AND DI WEIGHT:	75, 680. 26, 380.
WEIGHMASTER:	COMMODIT		0~000 80 X GROBS TARE NET	L AND DI WEIGHT: WEIGHT: WEIGHT: BROOT	76,680. 28,380. 48,300. 24.15
WEIGHMASTER:	COMMODIT		oooo - sa x Bross Tare Net Net	L AND OI WEIGHT: WEIGHT: WEIGHT: TONS:	76, 680. 28, 380. 48, 300. 24, 15
WEIGHMASTER: To the best of my knowledge, the winacceptable weate and has been per	COMMOD I T	s) indica	o	L AND DI WEIGHT: WEIGHT: WEIGHT: WEIGHT: TONS: Ket contain	75, 680. 28, 380. 48, 300. 24, 15 (a) no hazardous applicable state a
WEIGHMASTER:	COMMOD I T	s) indica anapost ket assu	ococ sax GROSS TARE NET NET Ited on this tick ad in accordant Imperall risk of	L AND OIL WEIGHT: WEIGHT: WEIGHT: TONG: TONG: Ket contain to with all secident a	75, 680. 28, 380. 48, 300. 24, 15 (#) no hazardeu applicable state: nd expressly agr

Additionally, I hereby acknowledge that I have read and understand conditions or statements indicated on reverse.

MODERN LANDFILL INC. DATE IN : 10/19/94 10:38:06 DATE OUT: 10/19/94-10:58:00 P.O. BOX 209 MODEL CITY, NEW YORK 44107
TRUCK
LANDRILL SITE HAROLD & PLETCHER RUSS HAULER WINDDERN DISPOSACIONAL SERVICE HAULER STANDERN DISPOSACIONAL SERVICE STRIPPITT ...(NTS) MODERN DISPOSAL MARIAN COMMODITY 10800-0000 SOIL AND OIL CLEANUP STAD OWNSTRIE WITH HETE YET TONOR IN GROSS WEIGHT, 128, 840. TARE WEIGHT: 35,860, TRUM SWEET HEIGHT , 92, 380. DAMANDARY STAND CONTRACTOR OF THE PROPERTY OF To the best of my knowledge; the waste stream(s) indicated on this ticket contain(s) no hexardous of tinacceptable waste and has been packaged and transported in accordance with all applicable state and federal regulations. Any person accepting this ticket assumes all risk of accident and expressly agrees. that Modern Landfill Inc. shall not be liable under any droumstances for any injury to person, loss of demage and also agrees to indemnify and hold harmless Modern Landfill inc. and its employees Additionally, I hereby acknowledge that I have read and understand conditions or statements indicated on reverse. Signaturé:

APPENDIX G

Daily Field Reports

PROJECT: Interim Remedial Measure Construction LOCATION: Akron, N.Y. CONTRACTOR: Haseley Trucking Company ERSONNEL AND EQUIPMENT ON SITE:	WEATHER: Cloudy, Light Rain TEMPERATURE: 75°F
CONTRACTOR: Haseley Trucking Company ERSONNEL AND EQUIPMENT ON SITE:	
ERSONNEL AND EQUIPMENT ON SITE:	
	REPORT NO.: 2430-01
R. Crouch, J. Dorety (Day): No representatives from Ha John Deere 490D Trackhoe with Brush Chopper, Ford 77	seley on site. 5A Backhoe, Cat D5H Dozer, Ford Dump Truck, Office Traile
IATERIALS PLACED/WORK COMPLETED: No work being done while writer was on site.	
being placed on top of landfill and will be incorporated a	ong the west property line. Excavated sediments from the ditous fill. Decific areas of concern (gas well, monitoring wells, limits of
	ncerns about truck traffic on the property. We informed him w
Met with Ken Berkowitz of Strippit. He expressed his con	
Met with Ken Berkowitz of Strippit. He expressed his conwould have the contractor confine trucks to west side of	the parking lot.
Met with Ken Berkowitz of Strippit. He expressed his conwould have the contractor confine trucks to west side of	the parking lot.
Met with Ken Berkowitz of Strippit. He expressed his conwould have the contractor confine trucks to west side of	the parking lot.
Met with Ken Berkowitz of Strippit. He expressed his conwould have the contractor confine trucks to west side of	the parking lot.

CLIENT: Strippit, Inc.	DATE: 7/15/94 Friday
PROJECT: Interim Remedial Measure Construction	WEATHER: Cloudy, Breezy
LOCATION: Akron, N.Y.	TEMPERATURE: 80°F
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-02
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety, R. Crouch, R. Kampff (Day): Foreman, equipment (Day): Foreman, equipment (Site Clearing Subcontractor): J. Tuk (NYSDE)	ment operator, laborer (Haselev); Equipment Operator, 2
Ford Dumptruck, Backhoe	
MATERIALS PLACED/WORK COMPLETED: Swale along the west property line has had sediments remode to the south side of the building. Swale now being exceeding and grubbing work being completed within the formal statement of the south side of the building.	
COMMENTS: Decision made today to not allow wood chips and/or bra Branches, larger logs and stumps will be disposed of off- NYSDEC using videotape to supplement written field do	
TECHNICIAN (print): J. Joseph Dorety (signed):	

DATE: 7/19/94 Tuesday

	WEATHER: Sunny
LOCATION: Akron, N.Y.	TEMPERATURE: 75°F
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-03
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety, R. Crouch (Day): Foreman, equipment operate	or, laborer (Haseley): Surveyor and assistant: J. Tuk (NYSDEC
Ford Dumptruck, backhoe, work trailer.	
MATERIALS PLACED/WORK COMPLETED: Drainage ditch along the north slope completed to gravel north end of landfill.	access road. Partial removal of fence and concrete posts alon
Surveyor begins property boundary survey.	
Met with contractor and surveyor to go over survey requinorthwest.	rements for construction. Surveyor tied into property corner a

TECHNICIAN

CLIENT: Strippit, Inc.

(print): Description (signed):

CLIENT: Strippit, Inc.	DATE: 7/20/94 Wednesday
PROJECT: Interim Remedial Measure Construction	WEATHER: Sunny
LOCATION: Akron, N.Y.	TEMPERATURE: ~75°F
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-04
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety (Day): Foreman, equipment operator, laborer ((Haseley); Surveyor and assistant.
MATERIALS PLACED/WORK COMPLETED:	
Continued removal of fence around landfill,	
West property line staked and landfill can control grid be	eginning point established.
COMMENTS: Meeting with Haseley representatives regarding health and	ad safety requirements during subgrade preparation.
· · · · · · · · · · · · · · · · · · ·	

TECHNICIAN

(print): | Coseph Dorety (signed): | Orety |

CLIENT: Strippit, Inc.	DATE: 7/21/94 Thursday
PROJECT: Interim Remedial Measure Construction	WEATHER: Sunny
LOCATION: Akron, N.Y.	TEMPERATURE: ~75°F
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-05
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety (Day): Foreman, equipment operator, laborer ((Haseley)
Ford dumptruck, backhoe	
MATERIAL C. DI ACED AVORE COLON ESTA	
MATERIALS PLACED/WORK COMPLETED: Contractor continued removal of fence around landfill.	
COMMENTS: Still no approval of the Health and Safety plan that Hase	
Explained to contractor foreman that he should remove t	he larger pieces of steel located on top of the landfill,
Smell of natural gas noticeable around the gas well. Info	ormed R. Crouch of this matter. He will contact Field Services

TECHNICIA**N**

(print): A. Joseph Dorety (signed):

CLIENT: Strippit, Inc.	DATE: 7/22/94 Friday
PROJECT: Interim Remedial Measure Construction	WEATHER: Sunny
LOCATION: Akron, N.Y.	TEMPERATURE: 80°F
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-06
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety (Day): Foreman, equipment operator, laborer ((Haseley)
Dumptruck, backhoe	
MATERIALS PLACED/WORK COMPLETED: Fencing around gas well removed along with some larger	r pieces of steel from the top of the landfill.
COMMENTS: Gas odors still present around gas well. Rick has contacte Health and Safety plan approved at end of day.	ed Field Services and they will be out as soon as schedule allows
realth and Salety plan approved at end of day.	
TECHNICIAN (print): JUSSeph Dorett	

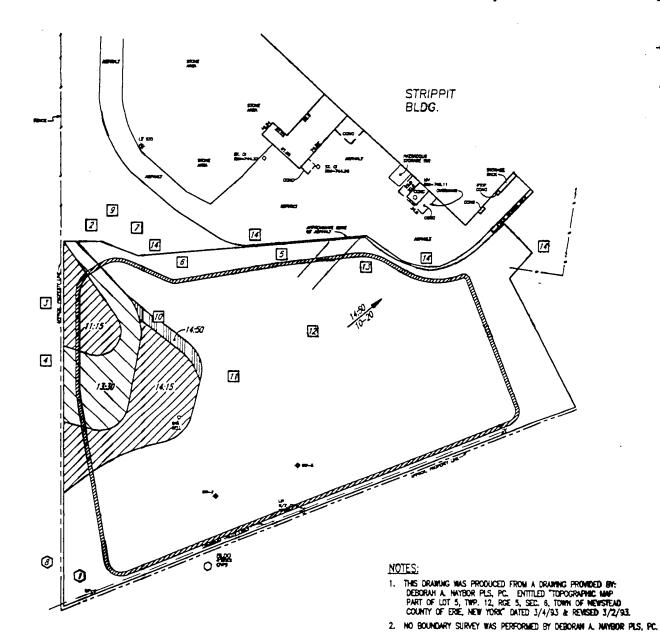
CLIENT: Strippit, Inc.	DATE: 7/25/94 Monday
PROJECT: Interim Remedial Measure Construction	WEATHER: Partly Cloudy
LOCATION: Akron, N.Y.	TEMPERATURE: 80°F
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-07
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety, R. Kampff, R. Crouch (Day): Foreman, 2 equipment of the state of	oment operators, laborer (Haseley): J. Tuk (NYSDEC)
Cat D5H dozer, backhoe, water truck	
PPM, Inc. Model 1005 Handheld Aerosol Monitor: HNU	Model HW-101 with 10.2 eV lamp
MATERIALS PLACED/WORK COMPLETED: Began leveling the berms at the south side of the landfill.	
Temporary drainage diversion berm placed along west sid	e of landfill.
Decontamination pad constructed at top of center access	road.
survey ribbon and contractor continued earthwork away fr Community air monitoring began today and included the monoitoring began today and included the monoitor	d J. Tuk (NYSDEC). Area around drum was delineated with
TECHNICIAN (print): J. Joseph Dorety (signed):	

CLIENT: Strippit, Inc.	DATE: 7/26/94 Tuesday
PROJECT: Interim Remedial Measure Construction	WEATHER: Overcast, Rain(a.m.)/Clear (p.m.)
LOCATION: Akron, N.Y.	TEMPERATURE: 60 - 75°F
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-08
PERSONNEL AND EQUIPMENT ON SITE: R. Kampff, R. Crouch (Day); Foreman, 2 equipment oper Tuk (NYSDEC); D. Wierzba (Field Serv.)	rators, laborer (Haseley); Surveyor and 2 assistants; J. Walia
Bulldozer, backhoe, water truck, smooth drum roller	
PPM, Inc. Handheld Aerosol Monitor, HNU Model HW	-101 with 10.2 eV lamn PID
COMMENTS: Preliminary meeting on site with NYSDEC.	
Leak at gas well due to bad valve at building. Valve repa	aired and leak stanged
Material cut from western slope containing occasional fra	gments of C&D material.
No exceedences today during community air monitoring.	
Surveyor began setting grade stakes on the top of landfill.	

TECHNICIAN

(print): R. Kampff
(signed)

AIR MONITORING LOG - JULY 26, 1994



AIR MONITORING EQUIPMENT

HAM: PPM, INC., MODEL 1005 HANDHELD AEROSOL MONITOR PID: HNU MODEL HW-101 PHOTOIONIZATION DETECTOR

PID: HNU MODEL HW-101 PHOTOIONIZATION DETECTOR EQUIPPED WITH A 10.2 eV LAMP

- 1 MAXIMUM AIRBOURNE PARTICULATE LEVEL: 8 HOUR TWA AIRBOURNE PARTICULATE LEVEL:
- (2) MAXIMUM PID READING: 0.3 ppm 8 HOUR TWA PID READING: 0.17 ppm

LEGEND

66 ug/m3

17 ug/m3

------ EXISTING FENCE LOCATION

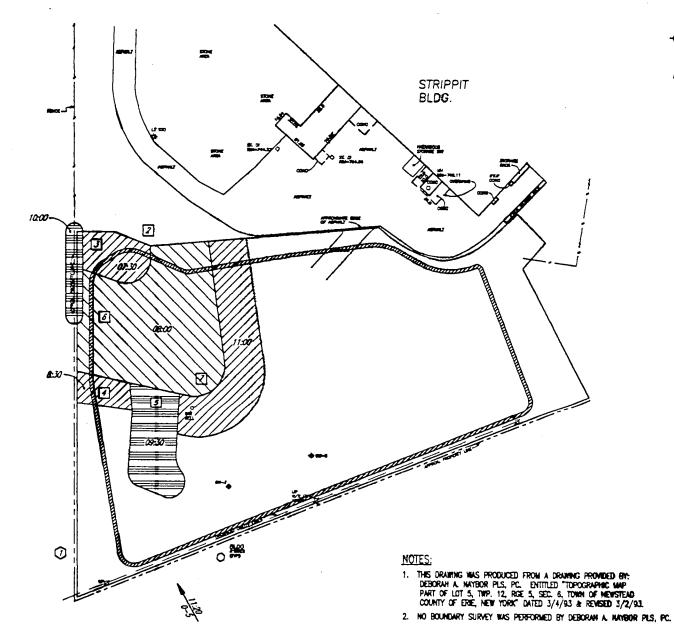
PROPOSED GEOMEMBRANE LIMITS

- UPWIND AIR MONITORING LOCATION
 - DOWNSHIND AIR MONITORING LOCATION
- 10-20 WIND DIRECTION WITH TIME AND SPEED (mph)

DAY ENGINEERING, P.C. ROCHESTER, N.Y.

CLIENT: Strippit, Inc.	DATE: 7/27/94 Wednesday	
PROJECT: Interim Remedial Measure Construction	WEATHER: Clear	
LOCATION: Akron, N.Y.	TEMPERATURE: 55°F (a.m.)/80°F (p.m.)	
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-09	
PERSONNEL AND EQUIPMENT ON SITE: R. Kampff (Day); 2 equipment operators, laborer (Hasele	ey); Surveyor and assistant; J. Tuk (NYSDEC)	
D5H Dozer, backhoe, water truck (not operational)		
PPM, Inc. Model 1005 handheld aerosol monitor (HAM).	HNU Model HW-101 with 10.2 eV lamp PID	
MATERIALS PLACED/WORK COMPLETED: Western and northern slopes cut with material used as fill on top of disposal area (center areas). Load of #2 crusher run spread in decontamination area.		
slope. After discussions with the NYSDEC, contractor we was placed in an overpack drum for off-site disposal. HN Situation was discussed with Strippit. They believe the whole was discussed with Strippit.	teel bin with brick (tan) and ash encountered during cut of west as allowed to place bricks back in landfill. The white powder U readings on materials encountered <4.5 ppm. nite powder is a heat-treating salt, and the green powder is reen Wheel"). Strippit provided a material safety data sheet	
Surveyor and assistant setting grade stakes for sub-base.		
Five (5) rolls of geomembrane delivered to site and place	d in northwest corner of the parking lot.	
Drums of purge water from monitoring wells emptied on top of landfill by permission of NYSDEC.		
TECHNICIAN (print): R. Rampff (signed)	man and the same of the same o	

AIR MONITORING LOG - JULY 27, 1994



AIR MONITORING EQUIPMENT

HAM: PPM, INC., MODEL 1005 HANDHELD AEROSOL MONITOR
PID: HNU MODEL HW-101 PHOTOIONIZATION DETECTOR
EQUIPPED WITH A 10.2 eV LAMP

- 1 MAXIMUM AIRBOURNE PARTICULATE LEVEL: 8 HOUR TWA AIRBOURNE PARTICULATE LEVEL:
- 2 MAXIMUM PID READING: 0.5 ppm 8 HOUR TWA PID READING: 0.3 ppm

LEGEND

86 ug/m3 45 ug/m3 ---- Existing Fence Location

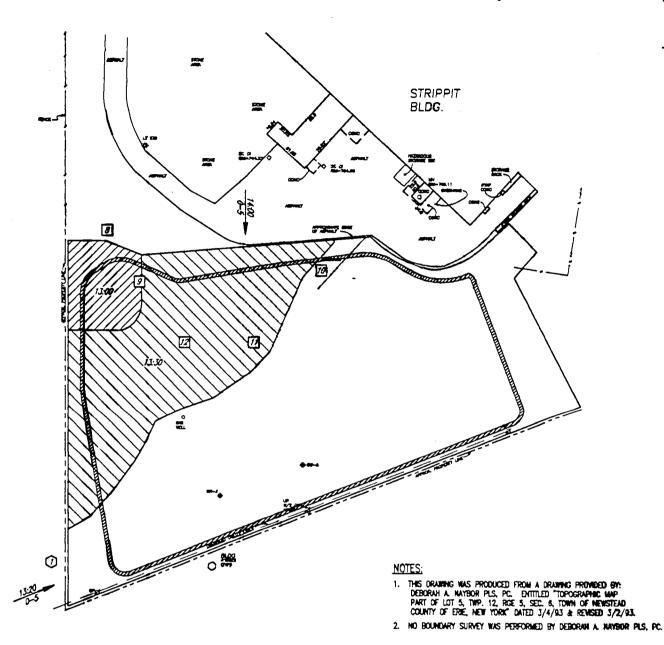
222222222 PROPOSED GEOMEMBRANE LIMITS

UPWIND AIR MONITORING LOCATION

2 DOWNSMIND AIR MONITORING LOCATION

10-20 WIND DIRECTION WITH TIME AND SPEED (might)

AIR MONITORING LOG - JULY 27, 1994



AIR MONITORING EQUIPMENT

HAM: PPM, INC., MODEL 1005 HANDHELD AEROSOL MONITOR

PID: HNU MODEL HW-101 PHOTOIONIZATION DETECTOR EQUIPPED WITH A 10.2 eV LAMP

1 MAXIMUM AIRBOURNE PARTICULATE LEVEL: 8 HOUR TWA AIRBOURNE PARTICULATE LEVEL: 86 ug/m3 45 ug/m3 LEGEND

0

2

UPWIND AIR MONITORING LOCATION

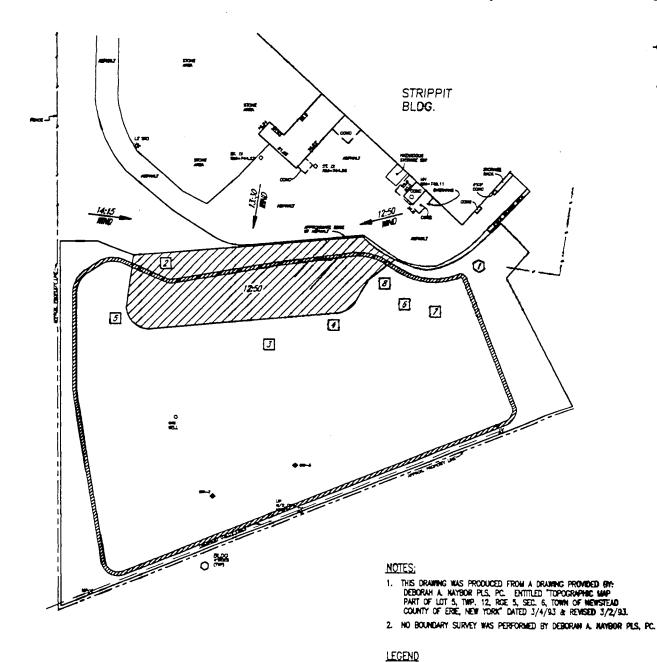
DOWNSHIP AIR MONITORING LOCATION

wind direction with time and speed (right)

2 MAXIMUM PID READING: 0.5 ppm 8 HOUR TWA PID READING: 0.3 ppm

CLIENT: Strippit, Inc.	DATE: 7/28/94 Thursday
PROJECT: Interim Remedial Measure Construction	WEATHER: Partly Cloudy
LOCATION: Akron, N.Y.	TEMPERATURE: 60°F (a.m.)/80°F (p.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-10
PERSONNEL AND EQUIPMENT ON SITE: R. Kampff, J. Dorety (Day); 2 equipment operators, labor	rer (Haseley)
D5H Dozer, backhoe, roller, water truck	
PPM, Inc. Model 1005 HAM, HNU Model HW-101 with	10.2 eV lamp
MATERIALS PLACED/WORK COMPLETED: North slope of landfill cut with material being used as fill o corner of landfill to area of decontamination pad. Contractor attempts to open and fill buried concrete concepts.	n top of landfill. Area of north slope being cut is from northwest
The state of the s	reasone tank for gas well. Don't know it this will work.
x 3/4" wide in first layer and is evident in second layer al	abrane. One roll was damaged during shipping. Cut is 1" long so. Shipper is aware of damage according to contractor. Ints rolls of geomembrane up off asphalt to prevent damage to place material on plywood sheeting.
TECHNICIAN (print): 1. Joseph Porety (signed): 1. Joseph Porety	

AIR MONITORING LOG - JULY 28, 1994



AIR MONITORING EQUIPMENT

HAM: PPM, INC., MODEL 1005 HANDHELD AEROSOL MONITOR

PID: HNU MODEL HW-101 PHOTOIONIZATION DETECTOR EQUIPPED WITH A 10.2 eV LAMP

1 MAXIMUM AIRBOURNE PARTICULATE LEVEL: 8 HOUR TWA AIRBOURNE PARTICULATE LEVEL: 51 ug/m3 70 ug/m3

(2) MAXIMUM PID READING: 8 HOUR TWA PID READING:

0.1 ppm 0.0 ppm

DAY ENGINEERING, P.C. ROCHESTER, N.Y.

WIND DIRECTION WITH TIME

2

UPWIND AIR MONITORING LOCATION

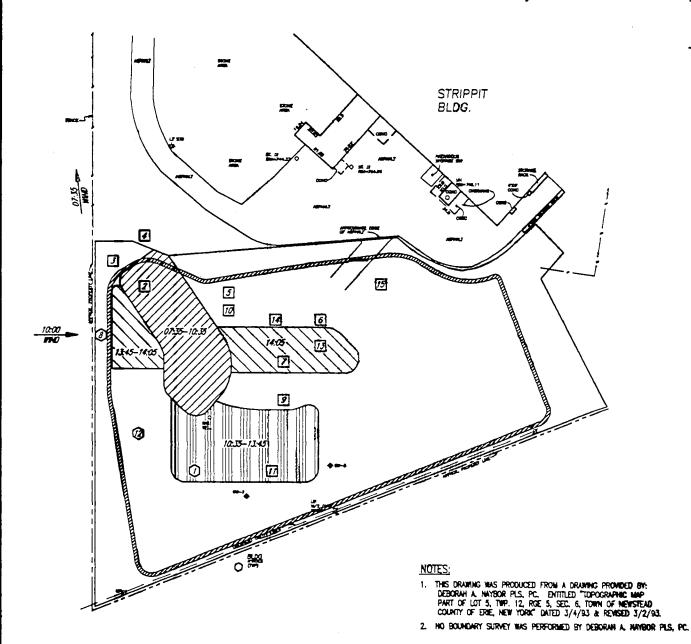
DOWNWIND AIR MONITORING LOCATION

CLIENT: Strippit, Inc.	DATE: 7/29/94 Friday
PROJECT: Interim Remedial Measure Construction	WEATHER: Partly Cloudy
LOCATION: Akron, N.Y.	TEMPERATURE: 65°F (a.m.)/80°F (p.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-11
PERSONNEL AND EQUIPMENT ON SITE: R. Kampff, J. Dorety (Day); 2 operators, laborer, substitute D5H Dozer, roller, backhoe, water truck	te foreman (Haselev): Surveyor and assistant; J. Tuk (NYSDEC
PPM, Inc. Model 1005 HAM, HNU Model HW-101 with	10,2 eV lamp PID
MATERIALS PLACED/WORK COMPLETED: Top of west slope cut with material moved to eastern por Rolls of geomembrane placed on plywood. Temporary drum staging/containment area constructed. Toe stakes set for west slope.	rtion of site for use as fill.
	staged at southwest corner of work area for disposal off-site, to a water main break, we will not be able to use Village wate a hydrant on the town system that contractor can use.
	\wedge

TECHNICIAN

(print): 1. Joseph Dorety (signed): 1. Joseph Dorety

AIR MONITORING LOG - JULY 29, 1994



AIR MONITORING EQUIPMENT

HAM: PPM, INC., MODEL 1005 HANDHELD AEROSOL MONITOR

PID: HNU MODEL HW-101 PHOTOIONIZATION DETECTOR EQUIPPED WITH A 10.2 eV LAMP

1 MAXIMUM AIRBOURNE PARTICULATE LEVEL: 8 HOUR TWA AIRBOURNE PARTICULATE LEVEL: 83 ug/m3 57 ug/m3

2 MAXIMUM PID READING: 8 HOUR TWA PID READING:

0.3 ppm 0.1 ppm

LEGEND

— EXECUTIVE REPORT FORCE FOCUTION

PROPOSED GEOMEMBRANE LIMITS

UPYRNO AIR MONITORING LOCATION

2 DOWNWIND AIR MONITORING LOCATION

7245 WIND DIRECTION WITH TIME

DATE: 8/1/94 Monday

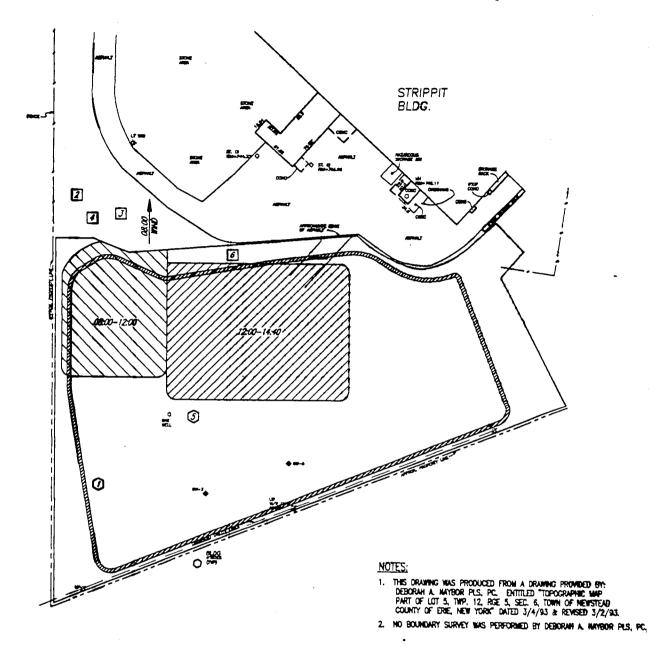
CLIENT: Strippit, Inc.

(print): _

TECHNICIAN

PROJECT: Interim Remedial Measure Construction	WEATHER: Sunny, Hazy, Humid	
LOCATION: Akron, N.Y.	TEMPERATURE: 75°F (a.m.)/90°F (p.m.)	
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-12	
PERSONNEL AND EQUIPMENT ON SITE: R. Kampff, J. Dorety (Day): Foreman, 2 equipment opera (NYSDEC)	tors, laborer (Haseley): Surveyor and assistant: J. Walia, J. Tuk	
D5H Dozer, roller, backhoe, water truck, Mitzubishi traci	k hoe (pm)	
PPM, Inc. Model 1005 HAM, HNU Model HW-101 PID	with 10.2 eV lamp	
gallon NYSDOT approved drums. Drums were placed in		
Toe and top stakes set where needed. North slope toe st	akes re-set.	
COMMENTS: Dozer out of service for ~ 1.5 hours due to loss of hydrau North toe of slope stakes moved in approximately 30 feet slopes, which were previously graded, to be re-graded in a	from original placement location. This forces areas of north	
On-site progress meeting with NYSDEC today. Contractor is approximately 1 to 1.5 weeks behind his original schedule.		
· · · · · · · · · · · · · · · · · · ·		

AIR MONITORING LOG - AUGUST 1, 1994



AIR MONITORING EQUIPMENT

HAM: PPM, INC., MODEL 1005 HANDHELD AEROSOL MONITOR
PID: HNU MODEL HW-101 PHOTOIONIZATION DETECTOR
EQUIPPED WITH A 10.2 eV LAMP

MAXIMUM AIRBOURNE PARTICULATE LEVEL: 81 ug/m3 8 HOUR TWA AIRBOURNE PARTICULATE LEVEL: 43.5 ug/m3

2 MAXIMUM PID READING: 0.2 ppm 8 HOUR TWA PID READING: 0.1 ppm

<u>LEGEND</u>

----- EXISTING FENCE LOCATION

222222222 PROPOSED GEOMEMBRAKE LIMITS

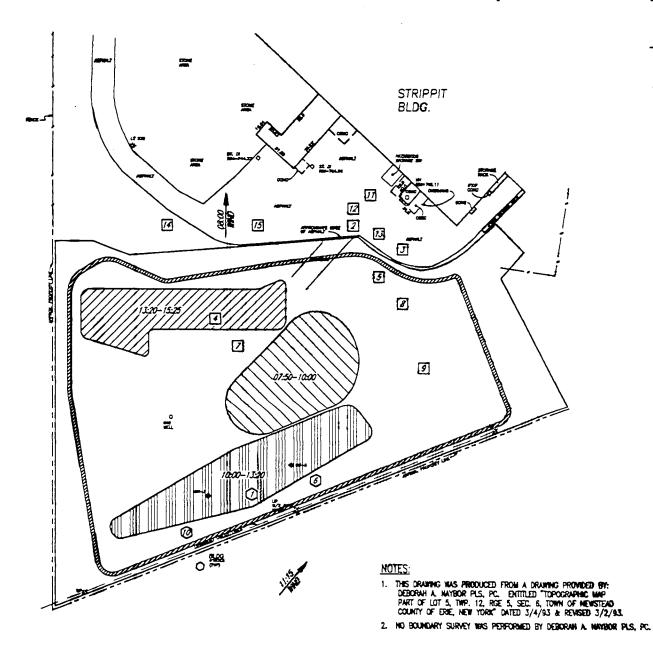
UPWIND AIR MONITORING LOCATION

DOWNWIND AIR MONITORING LOCATION

12:45 WIND DIRECTION WITH TIME

CLIENT: Strippit, Inc.	DATE: 8/2/94 Tuesday
PROJECT: Interim Remedial Measure Construction	WEATHER: Partly Cloudy
LOCATION: Akron, N.Y.	TEMPERATURE: 72°F (a.m.)/85°F (p.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-13
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety (Day); Foreman, 2 equipment operators, labore	r (Haseley): Surveyor and belper: J. Tuk (NYSDEC)
D5H Dozer, track hoe, backhoe, roller, water truck, Teres	x dumptruck (p.m.)
PPM, Inc, Model 1005 HAM, HNU Model HW-101 PID	with 10.2 eV lamp
MATERIALS PLACED/WORK COMPLETED: Approximately 650 yd ³ of material cut from west slope an A second drum of green granular material encountered.	d placed on top as fill.
Larger pieces of steel and tree stumps moved to staging a	rea southwest of disposal area.
Over pack of heat treating salts completed.	
TECHNICIAN (print): J. Joseph Dotety (signed):	

AIR MONITORING LOG - AUGUST 2, 1994



AIR MONITORING EQUIPMENT

HAM: PPM, INC., MODEL 1005 HANDHELD AEROSOL MONITOR

PID: HNU MODEL HW-101 PHOTOIONIZATION DETECTOR EQUIPPED WITH A 10.2 eV LAMP

1 MAXIMUM AIRBOURNE PARTICULATE LEVEL: 8 HOUR TWA AIRBOURNE PARTICULATE LEVEL: 91 ug/m3 66 ug/m3

2 MAXIMUM PID READING: 8 HOUR TWA PID READING:

0.3 ppm 0.2 ppm

LEGEND

22222222 PROPOSED GEOMEMBRANE LIMITS

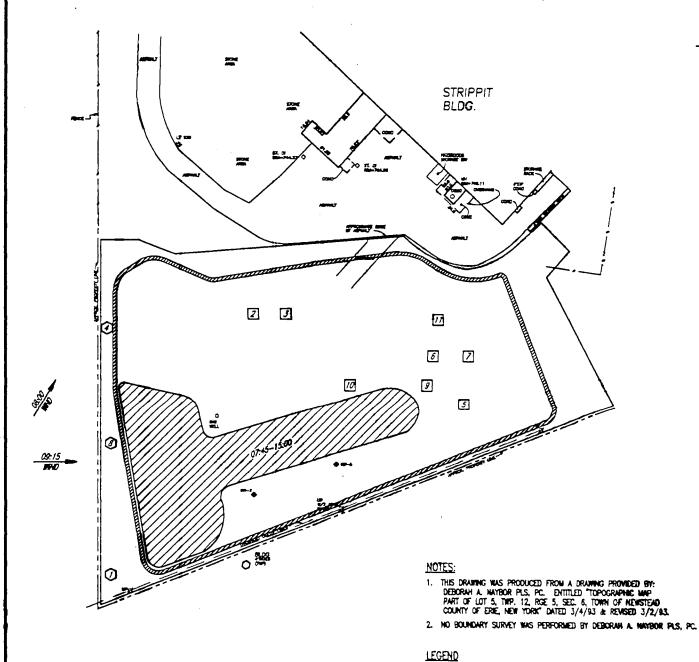
UPWIND AIR MONITORING LOCATION

DOWNWIND AIR MONITORING LOCATION

1245 WIND DIRECTION WITH TIME

CLIENT: Strippit, Inc.	DATE: 8/3/94 Wednesday
PROJECT: Interim Remedial Measure Construction	WEATHER: Partly Cloudy
LOCATION: Akron, N.Y.	TEMPERATURE: 65°F (a.m.) /85°F (p.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-14
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety, R. Kampff (Day): Foreman, 3 equipment oper	ators, laborer (Haseley); J. Tuk (NYSDEC)
D5H Dozer, trackhoe, dumptruck, backhoe, water truck,	roller
PPM, Inc. Model 1005 HAM; HNU Model HW-101 PID	with 10,2 eV lamp
MATERIALS PLACED/WORK COMPLETED: Approximately 650 yd ³ of material cut from west slope ar Drum carcasses and soils impacted with petroleum-like od	nd placed on top as fill. for placed in overpack drum (OP-#5) and staged in containmen
area, Excavated areas rolled at end of day.	and many many and continuation
The drums with petroleum-like odors had PID readings rediscussed materials found today with J. Tuk (NYSDEC).	
Dust levels in afternoon were higher than usual, though t afternoon to control dusts.	here were no exceedences. Water truck used most of the
TECHNICIAN (print): 1 Joseph Dorety	

AIR MONITORING LOG - AUGUST 3, 1994



AIR MONITORING EQUIPMENT

HAM: PPM, INC., MODEL 1005 HANDHELD AEROSOL MONITOR

PID: HNU MODEL HW-101 PHOTOIONIZATION DETECTOR EQUIPPED WITH A 10.2 eV LAMP

- 1 MAXIMUM AIRBOURNE PARTICULATE LEVEL: 8 HOUR TWA AIRBOURNE PARTICULATE LEVEL:
 - : 141 ug/m3 EVEL: 96 ug/m3
- (2) MAXIMUM PID READING: 8 HOUR TWA PID READING:
- 0.1 ppm 0.4 ppm

DAY ENGINEERING, P.C. ROCHESTER, N.Y.

WIND DIRECTION WITH TIME

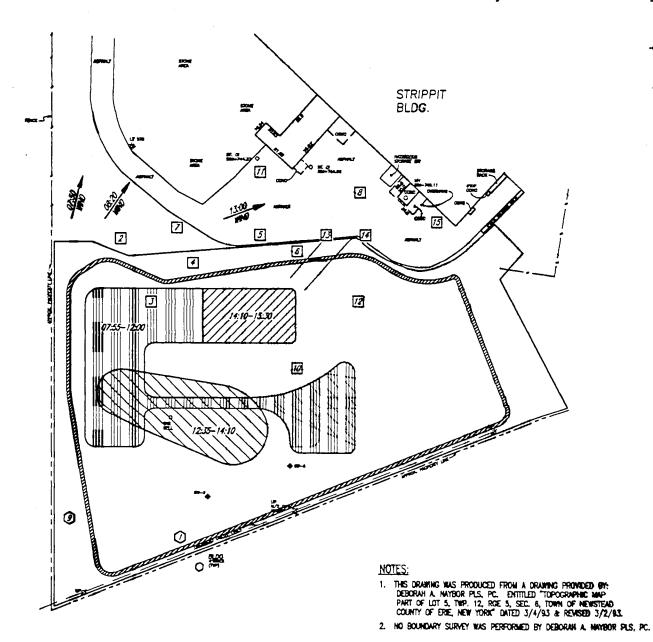
2

UPWIND AIR MONITORING LOCATION

DOWNWIND AIR MONITORING LOCATION

CLIENT: Strippit, Inc.	DATE: 8/4/94 Thursday
PROJECT: Interim Remedial Measure Construction	WEATHER: Partly Cloudy, Hazy
LOCATION: Akron, N.Y.	TEMPERATURE: 70°F (a.m.)/85°F (p.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-15
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety (Day); Foreman, 3 equipment operators, labore	er (Haseley); Surveyor and assistant; J. Tuk (NYSDEC)
D5H Dozer, trackhoe, dumptruck, backhoe, water truck,	roller
PPM, Inc. Model 1005 HAM; HNU Model HW-101 PfD	with 10,2 eV lamp
Stone placed for new decontamination area, decon equipm with dozer, and rolled. Crew continues grading work on n of the landfill. Surveyor staked centerline of swale along the south slope	nent relocated. Rough grade of west slope completed, smoother torth slope from former decon area towards the northeast corner.
COMMENTS: Crew making better progress now but contractor still feel Winds today quite gusty and making dust suppression con along north slope.	Is they are 7 to 10 days behind schedule. Itinuous work in the afternoon. Needed to have dozer stop work
Rain began falling as roller started going over disturbed	areas to compact for the night.
MECHNICIAN (print): Lioseph Dorety	

AIR MONITORING LOG - AUGUST 4, 1994



AIR MONITORING EQUIPMENT

HAM: PPM, INC., MODEL 1005 HANDHELD AEROSOL MONITOR PID: HNU MODEL HW-101 PHOTOIONIZATION DETECTOR

EQUIPPED WITH A 10.2 eV LAMP

1 MAXIMUM AIRBOURNE PARTICULATE LEVEL: 8 HOUR TWA AIRBOURNE PARTICULATE LEVEL: 138 ug/m3 71 ug/m3 LEGEND

0

2

EXISTING FENCE LOCATION

2222222222 PROPOSED GEOMEMBRANE LIMITS

WHO DIRECTION WITH TIME

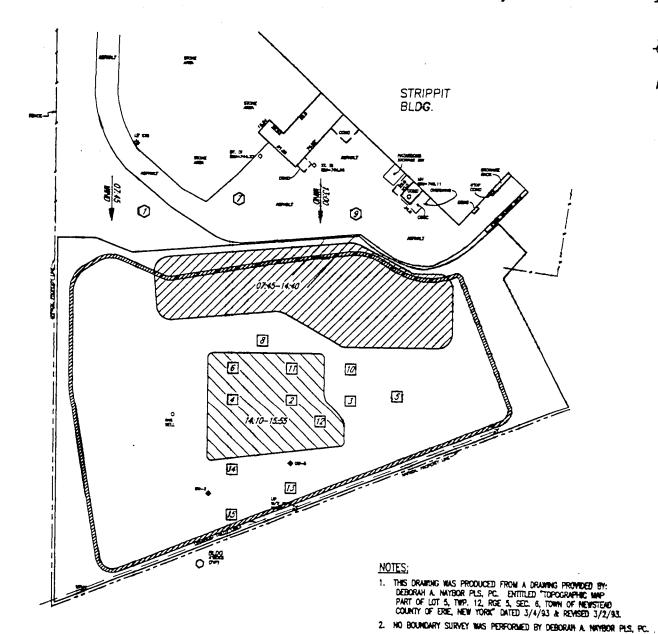
UPWIND AIR MONITORING LOCATION

DOWNWIND AIR MONITORING LOCATION

2 MAXIMUM PID READING: 0.3 ppm 8 HOUR TWA PID READING: 0.1 ppm

CLIENT: Strippit,	Inc.	DATE: 8/5/94 Friday
PROJECT: Interin	n Remedial Measure Construction	WEATHER: Cloudy
LOCATION: Akro	on, N.Y.	TEMPERATURE: 60°-65°F
CONTRACTOR:	Haseley Trucking Company	REPORT NO.: 2430-16
	EQUIPMENT ON SITE: [Day]: Foreman, 3 equipment operator	ors, laborer (Haseley); Surveyor and assistant: J. Tuk (NYSDEC
Dozer, trackhoe, du	mptruck, backhoe, water truck, roller	
PPM, Inc. Model 10	005 HAM; HNU Model HW-101 PID	with 10.2 eV lamp
Approximately 100 material, Surveyor	ED/WORK COMPLETED: linear feet of north slope cut to rough verified subbase grade of west slope a ong west side of west property line dra	grade, with excavated material placed on top of landfill as fill and the western portion of north slope.
Received manufactu	us determined that silt came from his curing specifications of raw materials for were disturbed rolled at end of day.	
TECHNICIAN	(print): Joseph Dorety (signed): V24	

AIR MONITORING LOG - AUGUST 5, 1994



AIR MONITORING EQUIPMENT

HAM: PPM, INC., MODEL 1005 HANDHELD AEROSOL MONITOR
PID: HNU MODEL HW-101 PHOTOIONIZATION DETECTOR
EQUIPPED WITH A 10.2 eV LAMP

1) MAXIMUM AIRBOURNE PARTICULATE LEVEL: 8 HOUR TWA AIRBOURNE PARTICULATE LEVEL: 32 ug/m3 17 ug/m3

(2) MAXIMUM PID READING: 8 HOUR TWA PID READING:

STRIP\LAND\STRIP113

0.2 ppm 0.0 ppm

LEGEND

222222222 PROPOSED GEOMEMBRANE LIMITS

UPWIND AIR MONITORING LOCATION

DOMENTHO AIR MONITORING LOCATION

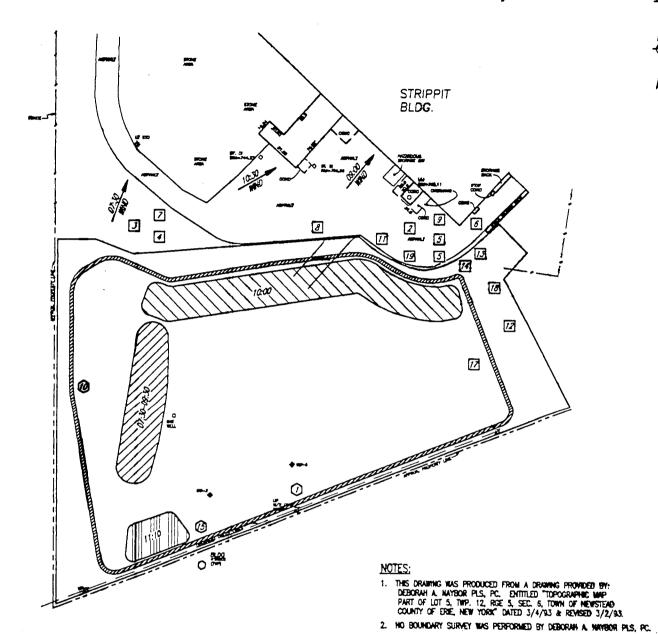
12NG WIND DIRECTION WITH TIME

CLIENT: Strippit, Inc.	DATE: 8/8/94 Monday
PROJECT: Interim Remedial Measure Construction	WEATHER: Partly Cloudy
LOCATION: Akron, N.Y.	TEMPERATURE: 65°F (a.m.)/80°F (p.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-17
PERSONNEL AND EQUIPMENT ON SITE:	
J. Dorety, R Kampff (Day); Foreman, 3 equipment opera	ators, laborer (Haseley): J. Walia, J. Tuk (NYSDEC)
Dozer, trackhoe, dumptruck, backhoe, water truck, roller	
PPM, Inc, Model 1005 HAM; HNU Model HW-101 PID	with 10.2 eV lamp
MATERIALS PLACED/WORK COMPLETED:	
subbase.	rade. Western portion of north slope brought to finish grade for
Cut material from north slope used as fill on top.	
Entire area of disturbed soils rolled at the end of the day	
·	<u> </u>
COMMENTS: Had on-site meeting with NYSDEC today. Verhally rece	vived schedule from Haseley today for placement of select fill
subbase, geomembrane installation, and 6" select fill liner	protection.
Explained to contractor that barrier protection material sh	nould have a higher fines content than material that is proposed,
North slope cut nearly completed.	
No.	

(print): __ (signed):_

TECHNICIAN

AIR MONITORING LOG - AUGUST 8, 1994



AIR MONITORING EQUIPMENT

HAM: PPM, INC., MODEL 1005 HANDHELD AEROSOL MONITOR

PID: HNU MODEL HW-101 PHOTOIONIZATION DETECTOR EQUIPPED WITH A 10.2 eV LAMP

1 MAXIMUM AIRBOURNE PARTICULATE LEVEL: 8 HOUR TWA AIRBOURNE PARTICULATE LEVEL:

91 ug/m3 26 ug/m3 **LEGEND**

0

2

WIND DIRECTION WITH TIME

UPWIND AIR MONITORING LOCATION

DOWNWIND AIR MONITORING LOCATION

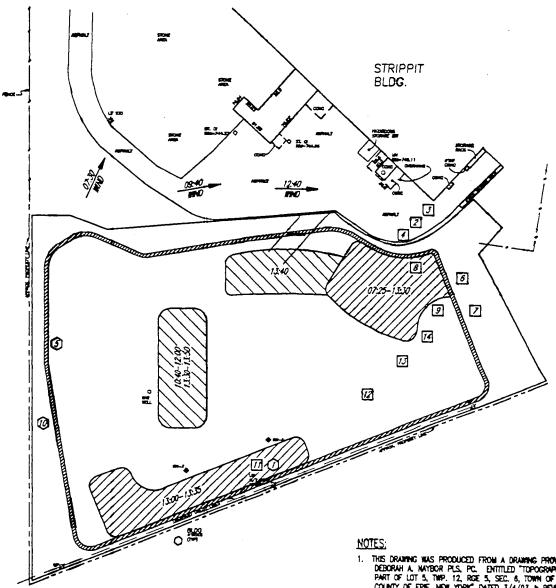
(2) MAXIMUM PID READING: 8 HOUR TWA PID READING:

STRIP\LAND\STRIP114

0.2 ppm 0.1 ppm

CLIENT: Strippit, Inc.	DATE: 8/9/94 Tuesday
PROJECT: Interim Remedial Measure Construction	WEATHER: Cloudy, Occasional Light Rain
LOCATION: Akron, N.Y.	TEMPERATURE: 65°F
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-18
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety (Day); Foreman, 3 equipment operators, labore	er (Haseley); Surveyor and 2 assistants; J. Tuk (NYSDEC)
Dozer, trackhoe, dumptruck, backhoe, water truck, roller	
PPM, Inc. Model 1005 HAM; HNU Model HW-101 PID	with 10.2 eV lamp
MATERIALS PLACED/WORK COMPLETED: Cut adjustment made to eastern portion of north slope. Surveyor begins checking subbase grades where week is seen	
to determine materials needed.	empleted. Took shots to tops of monitoring wells to be extended
With the amount of material remaining to be cut, it does	not appear that it will fill the top of proposed grade. Contractor we to cut the top at the western end to bring eastern top section
TECHNICIAN (print): I. Joseph Doretty	

AIR MONITORING LOG - AUGUST 9, 1994



1. THIS DRAINING WAS PRODUCED FROM A DRAINING PROVIDED BY:
DEBORAH A. NAYBOR PLS. PC. ENTITLED "TOPOGRAPHIC MAP
PART OF LOT 5, TMP. 12, RGE 5, SEC. 6, TOWN OF NEWSTEAD
COUNTY OF ERIE, NEW YORK" DATED 3/4/93 & REVISED 3/2/93.

2. NO BOUNDARY SURVEY WAS PERFORMED BY DEBORAN A. MAYBOR PLS, PC.

AIR MONITORING EQUIPMENT

HAM: PPM, INC., MODEL 1005 HANDHELD AEROSOL MONITOR PID: HNU MODEL HW-101 PHOTOIONIZATION DETECTOR

EQUIPPED WITH A 10.2 eV LAMP

(1) MAXIMUM AIRBOURNE PARTICULATE LEVEL: 121 ug/m3 8 HOUR TWA AIRBOURNE PARTICULATE LEVEL: 56 ug/m3

(2) MAXIMUM PID READING: 0.3 ppm 8 HOUR TWA PID READING: 0.2 ppm

LEGEND

EXISTING FENCE LOCATION

ZZZZZZZZZ PROPOSED GEOMEMBRANE LIMITS

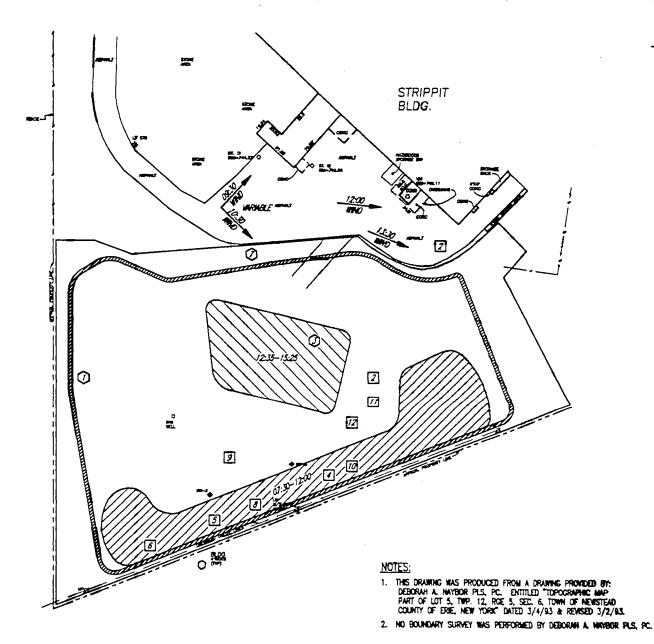
UPWIND AIR MONITORING LOCATION

2 DOWNWIND AIR MONITORING LOCATION

WIND DIRECTION WITH TIME

CLIENT: Strippit, Inc.	DATE: 8/10/94 Wednesday
PROJECT: Interim Remedial Measure Construction	on WEATHER: Sunny
LOCATION: Akron, N.Y.	TEMPERATURE: 60°F (a.m.)/80°F (p.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-19
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety, R. Kampff (Day); Foreman, 3 equipment of J. Tuk, K., Glaser (NYSDEC)	perators, laborer (Haselev): 2 laborers from Buffalo Drilling; J. Walia,
Dozer, trackhoe, dumptruck, backhoe, water truck, r	oller
PPM, Inc. Model 1005 HAM; HNU Model HW-101	PID with 10.2 eV lamp
MATERIALS PLACED/WORK COMPLETED: Buffalo Drilling extended monitoring wells GW-2 and	d GW-5 to accommodate new finished grade per plan.
Contractor began south slope/swale cut.	
Stump and logs stockpiled in southwest corner were	taken off site for disposal (2 loads)
6" cut of west top of landfill started and material mo	wed to east top of landfill.
COMMENTS: Decision made today by contractor to lower grade at northwest corner with the cut. Contractor laborer going over graded/rolled areas at	t top of landfill by 6" from proposed/staked grade. Crew began in
Informed by NYSDEC today that they want to know a If sufficient "clean" fill is present, NYSDEC also wan we do not have to meet compaction requirements on	amount of "clean" fill cover over waste, needs to be a minimum of 12", at subbase compacted to 95% and tested. If we can accomplish this, a lifts of material added above subbase.
Ray wants auger probes of fill done to evaluate thick	tness of "clean" fill. Told Ray I would start this tomorrow.
TECHNICIAN (print): I. Juseph (Dorety	

AIR MONITORING LOG - AUGUST 10, 1994



AIR MONITORING EQUIPMENT

1994

HAM: PPM, INC., MODEL 1005 HANDHELD AEROSOL MONITOR

PID: HNU MODEL HW-101 PHOTOIONIZATION DETECTOR EQUIPPED WITH A 10.2 eV LAMP

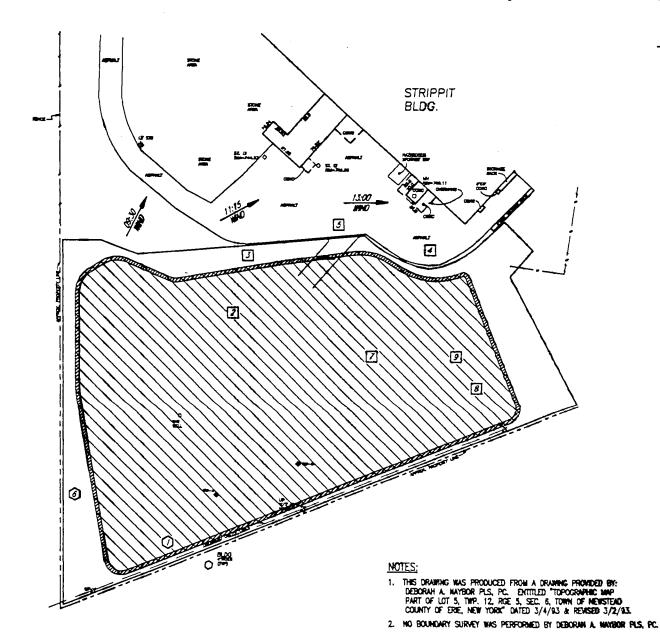
1 MAXIMUM AIRBOURNE PARTICULATE LEVEL: 101 ug/m3 8 HOUR TWA AIRBOURNE PARTICULATE LEVEL: 68 ug/m3

2 MAXIMUM PID READING: 0.2 ppm 8 HOUR TWA PID READING: 0.2 ppm 2 DOWNWIND AIR MONITORING LOCATION

1245 WIND DIRECTION WITH TIME

CLIENT: Strippit, Inc.	DATE: 8/11/94 Thursday
PROJECT: Interim Remedial Measure Construction	WEATHER: Cloudy, Light Rain
LOCATION: Akron, N.Y.	TEMPERATURE: 60°F (a.m.)/68°F (p.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-20
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety, R. Kampff (Day); Foreman, 2 operators, labore	er (Haseley); Surveyor and assistant: J. Tuk (NYSDEC)
Dozer, trackhoe, backhoe, roller, dumptruck, water truck	
PPM, Inc. Model 1005 HAM; HNU Model HW-101 PID	with 10.2 eV lamp
placed on top as fill,	ut beginning just east of southwest corner. Excavated material
Thickness of "clean" fill over waste checked with hand aug	zer. Thicknesses range from 18"+ to less than 3".
Concrete forms placed around wells for liner attachment	boot construction,
We will have to rely on compaction to subsequent lifts ab	
Dumptruck cleaned/decontaminated for mobilization off-	site.
Subbase grading nearing completion, approximately 75%	of subbase grades verified by surveyor.
TECHNICIAN (print): I. Joseph Dorety	

AIR MONITORING LOG - AUGUST 11, 1994



AIR MONITORING EQUIPMENT

HAM: PPM, INC., MODEL 1005 HANDHELD AEROSOL MONITOR

PID: HNU MODEL HW-101 PHOTOIONIZATION DETECTOR EQUIPPED WITH A 10.2 eV LAMP

1 MAXIMUM AIRBOURNE PARTICULATE LEVEL: 8 HOUR TWA AIRBOURNE PARTICULATE LEVEL: 38 ug/m3 22 ug/m3

2 MAXIMUM PID READING: 8 HOUR TWA PID READING: 0.3 ppm 0.2 ppm

LEGEND

----- DOSTING FENCE LOCATION

222222222 PROPOSED GEOMEMBRANE LIMITS

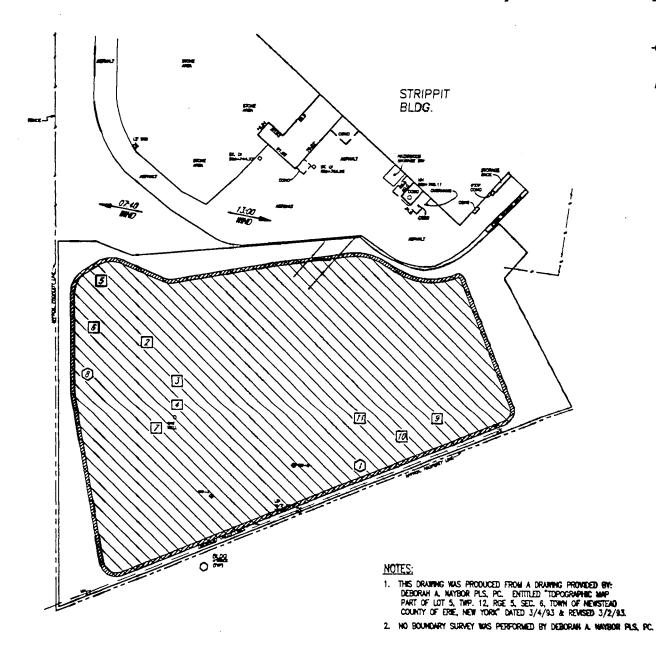
UPWIND AIR MONITORING LOCATION

2 DOWNWIND AIR MONITORING LOCATION

WHO DIRECTION WITH TIME

PROJECT: Interim Remedial Measure Construction LOCATION: Akron, N.Y. CONTRACTOR: Haseley Trucking Company PERSONNEL AND EQUIPMENT ON SITE: J. Dorety (Day): Foreman, 2 equipment operators, laborer (Haseley): Surveyor and assistant; J. Tuk (NYSDEC) D5H and D3C dozers, backhoe, roller, water truck PPM, Inc., Model 1005 HAM; HNU Model HW-101 PID with 10.2 eV lamp MATERIALS PLACED/WORK COMPLETED: Grade stakes reset over entire site for subbase elevation verification. D3C dozer being used for final (polished) finish grade of subbase. Entire site rolled for the end of the day as the beginning of proof roll of subbase. COMMENTS: Subbase grades in areas checked within 1/2* (0.04*) of proposed Soils being watered after finish grade by D3C dozer and then compacted with vibratory roller. Crew will begin having select fill delivered to site on Monday (8/15). Terex dump truck taken off-site when Cat D3C was delivered.	CLIENT: Strippit, Inc.	DATE: 8/12/94 Friday
LOCATION: Akron, N.Y. CONTRACTOR: Haseley Trucking Company PERSONNEL AND EQUIPMENT ON SITE: J. Dorety (Day): Foreman, 2 equipment operators, laborer (Haseley): Surveyor and assistant; J. Tuk (NYSDEC) DSH and D3C dozers, backhoe, roller, water truck PPM, Inc. Model 1005 HAM; HNU Model HW-101 PID with 10.2 eV lamp MATERIALS PLACED/WORK COMPLETED: Grade stakes reset over entire site for subbase elevation verification. D3C dozer being used for final (polished) finish grade of subbase. Entire site rolled for the end of the day as the beginning of proof roll of subbase. COMMENTS: Subbase grades in areas checked within 1/2" (0.04") of proposed Soils being watered after finish grade by D3C dozer and then compacted with vibratory roller. Crew will begin having select fill delivered to site on Monday (8/15).	PROJECT: Interim Remedial Measure Construction	WEATHER: Cloudy (a.m.)/Sunny (p.m.)
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety (Day); Foreman, 2 equipment operators, laborer (Haseley); Surveyor and assistant; J. Tuk (NYSDEC) D5H and D3C dozers, backhoe, roller, water truck PPM, Inc. Model 1005 HAM; HNU Model HW-101 PID with 10.2 eV lamp MATERIALS PLACED/WORK COMPLETED: Grade stakes reset over entire site for subbase elevation verification. D3C dozer being used for final (polished) finish grade of subbase. Entire site rolled for the end of the day as the beginning of proof roll of subbase. COMMENTS: Subbase grades in areas checked within 1/2* (0.04*) of proposed Soils being watered after finish grade by D3C dozer and then compacted with vibratory roller. Crew will begin having select fill delivered to site on Monday (8/15).	LOCATION: Akron, N.Y.	
J. Dorety (Day); Foreman, 2 equipment operators, laborer (Haseley); Surveyor and assistant; J. Tuk (NYSDEC D5H and D3C dozers, backhoe, roller, water truck PPM, Inc. Model 1005 HAM; HNU Model HW-101 PID with 10.2 eV lamp MATERIALS PLACED/WORK COMPLETED; Grade stakes reset over entire site for subbase elevation verification. D3C dozer being used for final (polished) finish grade of subbase. Entire site rolled for the end of the day as the beginning of proof roll of subbase. COMMENTS: Subbase grades in areas checked within 1/2" (0.04") of proposed Soils being watered after finish grade by D3C dozer and then compacted with vibratory roller. Crew will begin having select fill delivered to site on Monday (8/15).	CONTRACTOR: Haseley Trucking Company	
J. Dorety (Day); Foreman, 2 equipment operators, laborer (Haseley); Surveyor and assistant; J. Tuk (NYSDEC D5H and D3C dozers, backhoe, roller, water truck PPM, Inc. Model 1005 HAM; HNU Model HW-101 PID with 10.2 eV lamp MATERIALS PLACED/WORK COMPLETED; Grade stakes reset over entire site for subbase elevation verification. D3C dozer being used for final (polished) finish grade of subbase. Entire site rolled for the end of the day as the beginning of proof roll of subbase. COMMENTS: Subbase grades in areas checked within 1/2" (0.04") of proposed Soils being watered after finish grade by D3C dozer and then compacted with vibratory roller. Crew will begin having select fill delivered to site on Monday (8/15).	PERSONNEL AND EQUIPMENT ON SITE	
PPM, Inc. Model 1005 HAM; HNU Model HW-101 PID with 10.2 eV lamp MATERIALS PLACED/WORK COMPLETED: Grade stakes reset over entire site for subbase elevation verification. D3C dozer being used for final (polished) finish grade of subbase. Entire site rolled for the end of the day as the beginning of proof roll of subbase. COMMENTS: Subbase grades in areas checked within 1/2* (0.04*) of proposed Soils being watered after finish grade by D3C dozer and then compacted with vibratory roller. Crew will begin having select fill delivered to site on Monday (8/15).		orer (Haseley): Surveyor and assistant; J. Tuk (NYSDEC)
MATERIALS PLACED/WORK COMPLETED: Grade stakes reset over entire site for subbase elevation verification. D3C dozer being used for final (polished) finish grade of subbase. Entire site rolled for the end of the day as the beginning of proof roll of subbase. COMMENTS: Subbase grades in areas checked within 1/2" (0.04") of proposed Soils being watered after finish grade by D3C dozer and then compacted with vibratory roller. Crew will begin having select fill delivered to site on Monday (8/15).	D5H and D3C dozers, backhoe, roller, water truck	
MATERIALS PLACED/WORK COMPLETED: Grade stakes reset over entire site for subbase elevation verification. D3C dozer being used for final (polished) finish grade of subbase. Entire site rolled for the end of the day as the beginning of proof roll of subbase. COMMENTS: Subbase grades in areas checked within 1/2" (0.04') of proposed Soils being watered after finish grade by D3C dozer and then compacted with vibratory roller. Crew will begin having select fill delivered to site on Monday (8/15).	PPM, Inc. Model 1005 HAM: HNU Model HW-101 Pf	(D) with 10.2 eV lamp
Grade stakes reset over entire site for subbase elevation verification. D3C dozer being used for final (polished) finish grade of subbase. Entire site rolled for the end of the day as the beginning of proof roll of subbase. COMMENTS: Subbase grades in areas checked within 1/2" (0.04') of proposed Soils being watered after finish grade by D3C dozer and then compacted with vibratory roller. Crew will begin having select fill delivered to site on Monday (8/15).		THE AVER OF SMALL
D3C dozer being used for final (polished) finish grade of subbase. Entire site rolled for the end of the day as the beginning of proof roll of subbase. COMMENTS: Subbase grades in areas checked within 1/2" (0.04') of proposed Soils being watered after finish grade by D3C dozer and then compacted with vibratory roller. Crew will begin having select fill delivered to site on Monday (8/15).		
Entire site rolled for the end of the day as the beginning of proof roll of subbase. COMMENTS: Subbase grades in areas checked within 1/2" (0.04') of proposed Soils being watered after finish grade by D3C dozer and then compacted with vibratory roller. Crew will begin having select fill delivered to site on Monday (8/15).	Grade stakes reset over entire site for subbase elevation	n verification.
COMMENTS: Subbase grades in areas checked within 1/2" (0.04') of proposed Soils being watered after finish grade by D3C dozer and then compacted with vibratory roller. Crew will begin having select fill delivered to site on Monday (8/15).	D3C dozer being used for final (polished) finish grade	of subbase.
COMMENTS: Subbase grades in areas checked within 1/2" (0.04') of proposed Soils being watered after finish grade by D3C dozer and then compacted with vibratory roller. Crew will begin having select fill delivered to site on Monday (8/15).	Entire site rolled for the end of the day as the beginning	ng of proof roll of subbase.
Subbase grades in areas checked within 1/2" (0.04') of proposed Soils being watered after finish grade by D3C dozer and then compacted with vibratory roller. Crew will begin having select fill delivered to site on Monday (8/15).		
Subbase grades in areas checked within 1/2" (0.04') of proposed Soils being watered after finish grade by D3C dozer and then compacted with vibratory roller. Crew will begin having select fill delivered to site on Monday (8/15).	COMMENTS:	
Crew will begin having select fill delivered to site on Monday (8/15).	- · · · · · 	proposed
Crew will begin having select fill delivered to site on Monday (8/15).	Soils being watered after finish grade by D3C dozer and	d then compacted with vibratory roller.
		•
Terex dump truck taken off-site when Cat D3C was delivered.		
	Terex dump truck taken off-site when Cat D3C was del	livered.
	1	
TECHNICIAN (print): J. Joseph Dorety		

AIR MONITORING LOG - AUGUST 12, 1994



AIR MONITORING EQUIPMENT

HAM: PPM, INC., MODEL 1005 HANDHELD AEROSOL MONITOR

PID: HNU MODEL HW-101 PHOTOIONIZATION DETECTOR EQUIPPED WITH A 10.2 eV LAMP

1 MAXIMUM AIRBOURNE PARTICULATE LEVEL: 8 HOUR TWA AIRBOURNE PARTICULATE LEVEL:

73 ug/m3 26 ug/m3 LEGEND

0

2

- WIND DIRECTION WITH TIME

UPYRNO AIR MONITORING LOCATION

DOWNWIND AIR MONITORING LOCATION

(2) MAXIMUM PID READING: 8 HOUR TWA PID READING:

THUR NOV 3, 12:35:00

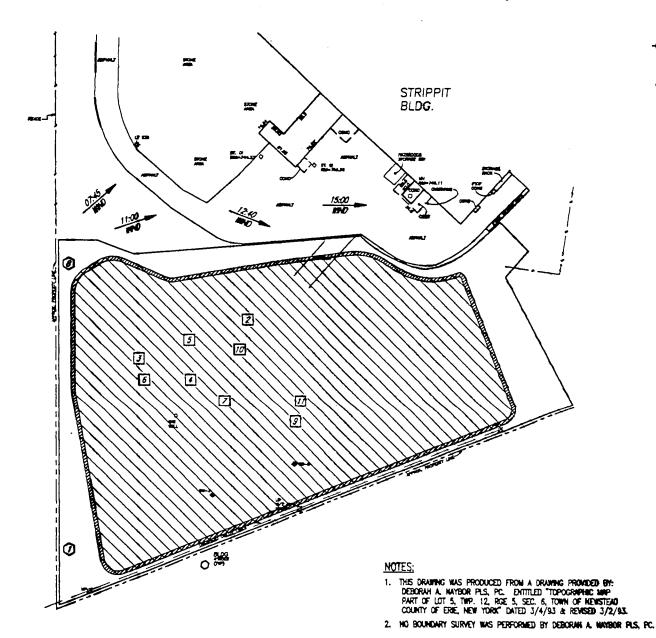
0.2 ppm 0.1 ppm

CLIENT: Strippit, Inc.	DATE: 8/15/94 Monday
PROJECT: Interim Remedial Measure Construction	WEATHER: Sunny
LOCATION: Akron, N.Y.	TEMPERATURE: 60°F (a.m.)/80°F (p.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-22
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety, R. Kampff (Day); Foreman, 2 equipment opera K. Glaser (NYSDEC)	tors, laborer (Haseley); Surveyor and assistant; J. Tuk, J. Walia,
2 dozers, trackhoe, backhoe, roller, water truck	
PPM, Inc. Model 1005 HAM; HNU Model HW-101 PID	with 10.2 eV lamp
MATERIALS PLACED/WORK COMPLETED: 650 yd ³ of select fill delivered and placed in such a way a northwest corner to the southwest corner of the landfill. Southeast subbase nearly complete.	s to create a haul road onto the top of the landfill from the This will significantly decrease the pushing distance.
Select fill placed today completely rolled at end of day.	
COMMENTS: Kevin Glaser on site today for regular progress meeting.	
During meeting, discussed the need for formal schedule v	apdate and gradation/proctor of barrier protection material.
Loads of select arriving later in afternoon have more/large of the material to resolve the issue. Loads generally cons	er stones. Informed contractor who then contacted the supplier istent in gradation, moisture content and plasticity.
Proof rolling of subbase continues ahead of select fill place encountered near top of slope in northwest section of site recompacted. This was the only area noted.	ement. Approximate 30 ft. x 35 ft. area of soft/west sub-base. Area cut open and allowed to dry, select fill added and

(print): _ (signed):_

 ${\tt TECHNICIAN}$

AIR MONITORING LOG - AUGUST 15, 1994



AIR MONITORING EQUIPMENT

HAM: PPM, INC., MODEL 1005 HANDHELD AEROSOL MONITOR

PID: HNU MODEL HW-101 PHOTOIONIZATION DETECTOR EQUIPPED WITH A 10.2 eV LAMP

1 MAXIMUM AIRBOURNE PARTICULATE LEVEL: 8 HOUR TWA AIRBOURNE PARTICULATE LEVEL: 19 ug/m3 11 ug/m3

2 MAXIMUM PID READING: 8 HOUR TWA PID READING: 0.2 ppm 0.2 ppm

LEGEND

- DOSTING FENCE LOCATION

222222222 PROPOSED GEOMEMBRAKE LIMITS

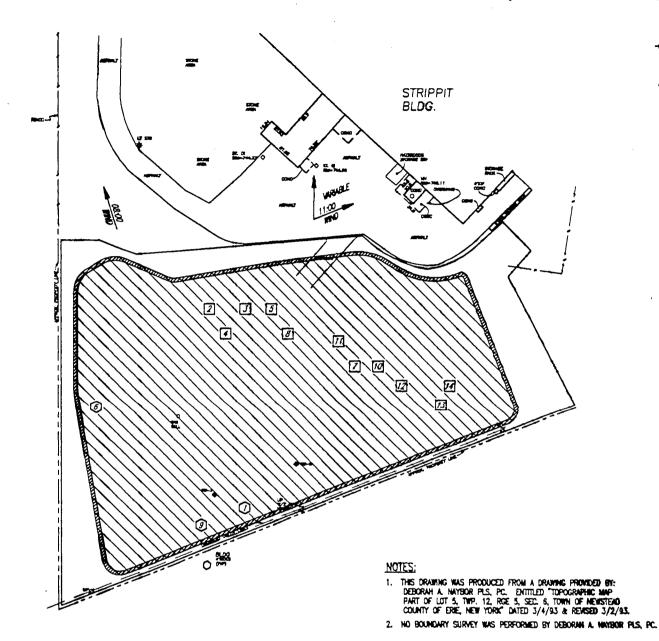
UPWIND AIR MONITORING LOCATION

2 DOWNWIND AIR MONITORING LOCATION

12:45 - WIND DRECTION WITH TIME

CLIENT: Strippit, Inc.	DATE: 8/16/94 Tuesday
PROJECT: Interim Remedial Measure Construction	WEATHER: Sunny
LOCATION: Akron, N.Y.	TEMPERATURE: 60°F (a.m.)/75°F (p.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-23
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety (Day); Foreman, 2 equipment operators, labore	er (Haseley): Surveyor and assistant: I Tuk (NVSDEC)
2 dozers, trackhoe, backhoe, roller, water truck	TODALO
PPM, Inc. Model 1005 HAM; HNU Model HW-101 PID	with 10.2 eV lamp
MATERIALS PLACED/WORK COMPLETED: 624 yd ³ of select fill placed in 6' lift and compacted using	vibratory roller.
Finish grade of subbase high point adjusted per surveyor's	s elevations.
Subbase near completion.	
Slopes being loaded from the top and material being push	working to cover northern section of top of landfill along with
Subbase should be completed tomorrow (8/17/).	
Contacted Dan Huff (Village of Akron) regarding cleaning	ng of CMP under Clarence Center Road.
TECHNICIAN (print): V. Joseph Dorety (signed): Med on A	

AIR MONITORING LOG - AUGUST 16, 1994



AIR MONITORING EQUIPMENT

HAM: PPM, INC., MODEL 1005 HANDHELD AEROSOL MONITOR

PID: HNU MODEL HW-101 PHOTOIONIZATION DETECTOR EQUIPPED WITH A 10.2 eV LAMP

(1) MAXIMUM AIRBOURNE PARTICULATE LEVEL: 8 HOUR TWA AIRBOURNE PARTICULATE LEVEL:

24 ug/m3 16 ug/m3

(2) MAXIMUM PID READING: 8 HOUR TWA PID READING: 0.2 ppm 0.1 ppm

LEGEND

-- EXISTING FENCE LOCATION PROPOSED GEOMEMBRANE UNITS

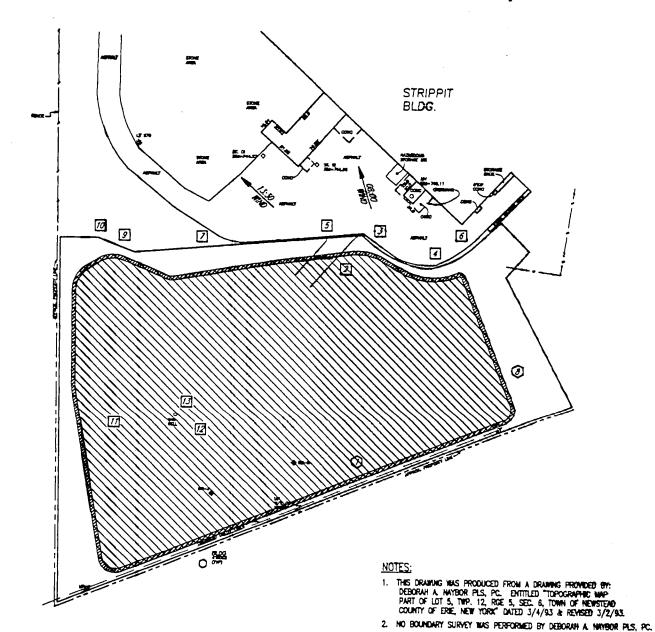
0 UPWIND AIR MONITORING LOCATION

2 DOWNWIND AIR MONITORING LOCATION

wind direction with time

CLIENT: Strippit, Inc.	DATE: 8/17/94 Wednesday
PROJECT: Interim Remedial Measure Construction	WEATHER: Partly Cloudy
LOCATION: Akron, N.Y.	TEMPERATURE: 62°F (a.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-24
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety (Day); Foreman, 2 equipment operators, labore	(Haseley): Surveyor and assistant: J. Tuk (NYSDEC)
2 dozers, trackhoe, backhoe, roller, water truck	
PPM, Inc. Model 1005 HAM; HNU Model HW-101 PiD	with 10.2 eV lamp
MATERIALS PLACED/WORK COMPLETED: Subbase grading completed today to surveyor's grades. A top of landfill and on northwest slope. Remaining 29 yd ³ All materials placed were compacted with vibratory roller	
select fill and spread to uncovered areas.	ccess. Loads of select are dumped at the leading edge of graded
Select fill loads appear to be consistent in gradation, mois	ture content, and plasticity.
Areas of prepared sub-base, along eastern side of norther sthat geomembrane installer wouldn't be on site until 8/24	slope, proof rolled: no problems notes. Haseley informed writter /94 (delayed at a job in Ohio).
TECHNICIAN (print): Joseph Doraty (signed): 1784	

AIR MONITORING LOG - AUGUST 17, 1994



AIR MONITORING EQUIPMENT

HAM: PPM, INC., MODEL 1005 HANDHELD AEROSOL MONITOR

PID: HNU MODEL HW-101 PHOTOIONIZATION DETECTOR EQUIPPED WITH A 10.2 eV LAMP

(1) MAXIMUM AIRBOURNE PARTICULATE LEVEL: 8 HOUR TWA AIRBOURNE PARTICULATE LEVEL:

23 ug/m3 12 ug/m3

(2) MAXIMUM PID READING: 8 HOUR TWA PID READING:

0.2 ppm 0.1 ppm

LEGEND

DOSTING FENCE LOCATION

222222222 PROPOSED GEOMEMBRANE LIMITS

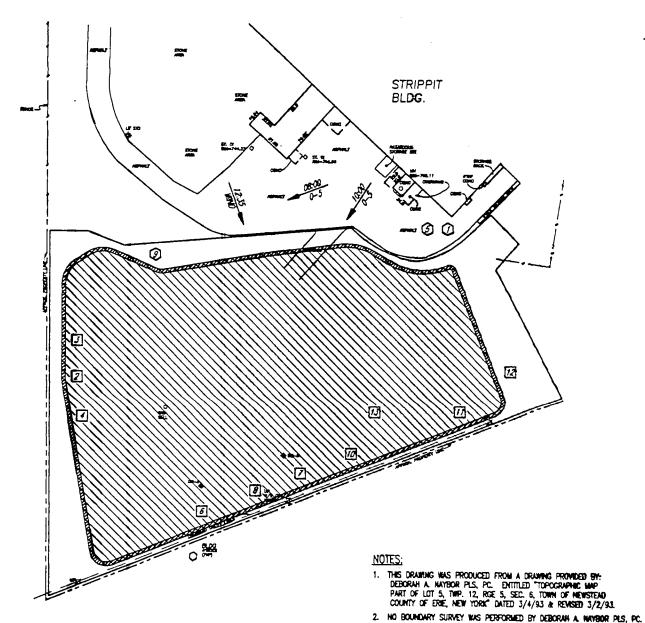
UPWIND AIR MONITORING LOCATION 2

DOWNSHIND AIR MONITORING LOCATION

WIND DIRECTION WITH TIME

CLIENT: Strippit, Inc.	DATE: 8/18/94 Thursday
PROJECT: Interim Remedial Measure Construct	tion WEATHER: Cloudy, Fog (a.m.)/Clear (p.m.)
LOCATION: Akron, N.Y.	TEMPERATURE: 64°F (a.m.)/75°F (p.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-25
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety (Day): Foreman, 2 equipment operators.	laborer (Haseley); J. Walia (NYSDEC); Surveyor and assistant
2 Dozers, trackhoe, roller, water truck, backhoe	
PPM, Inc. Model 1005 HAM; HNU Model HW-10	11 PfD with 10.2 eV lamp
placed to the proposed thickness and subsequently stockpiled for placement tomorrow. COMMENTS:	obase. Approximately 250 yd ³ of the 268 yd ³ delivered today has been compacted with a vibratory roller. The balance of the material was
occur on a portion of the northeast slope. Erosion	why placed select fill. However, some minor erosion to the subbase did a was contained by synthetic silt fence at the toe of the slope. The installation crew will be delayed. Projected time of the beginning the beginning of the beginning of the beginning of the beginning of the beginning the
TECHNICIAN (print): I. Joseph Doret (signed):	The

AIR MONITORING LOG - AUGUST 18, 1994



AIR MONITORING EQUIPMENT

HAM: PPM, INC., MODEL 1005 HANDHELD AEROSOL MONITOR

PID: HNU MODEL HW-101 PHOTOIONIZATION DETECTOR

EQUIPPED WITH A 10.2 eV LAMP

 MAXIMUM AIRBOURNE PARTICULATE LEVEL: 8 HOUR TWA AIRBOURNE PARTICULATE LEVEL: 83 ug/m3 38 ug/m3

(2) MAXIMUM PID READING: 8 HOUR TWA PID READING:

0.2 ppm 0.1 ppm

LEGEND

EXISTING FENCE LOCATION

222222222 PROPOSED GEOMEMBRANE LIMITS

0 UPWIND AIR MONITORING LOCATION

DOWNWIND AIR MONITORING LOCATION

- WIND DIRECTION WITH TIME

CLIENT: Strippst,	Inc.	DATE: 8/19/94 Friday
PROJECT: Interin	Remedial Measure Construction	WEATHER: Sunny, Hot, Humid
LOCATION: Akro	n, N.Y.	TEMPERATURE: 70°F (a.m.)/85°F (p.m.)
CONTRACTOR: 1	Haseley Trucking Company	REPORT NO.: 2430-26
	EQUIPMENT ON SITE: (Day): Foreman, 1 equipment operate	or, laborer (Haselev): J. Tuk (NYSDEC): Surveyor and assistan
2 Dozers, trackhoe,	roller, water truck, backhoe	
PPM, Inc. Model 10	05 HAM; HNU Model HW-101 PID	with 10.2 eV lamp
Continued placemen 156 yd ³ of select fill Concrete blocks arou	placed today. und gas well and monitoring wells GW	rtion of the top of the landfill and on the north slope. Total of -2 and GW-5 poured today. These blocks will be used to anchor
geomembrane at we	lls for boot construction.	
Niagara Mohawk, it not be decreased. Three alternative con	was understood that the wires were cur	ng in an increased elevation of grade. In an agreement with reently at minimum height above grade and this clearance could ontractor which will be presented to the NYSDEC at our weeking
Received the hydron	neter results today for the material ch	osen as the barrier protection material. Analysis shows
approximately 12.1%		
TECHNICIA N	(print): J. Joseph Dorety (signed): The	

CLIENT: Strippit, Inc.	DATE: 8/22/94 Monday
PROJECT: Interim Remedial Measure Construction	WEATHER: Partly Cloudy, Windy
LOCATION: Akron, N.Y.	TEMPERATURE: 60°F (a.m.)/75° (p.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-27
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety, R. Kampff (Day): Foreman, 1 equipment or	perator, laborer (Haseley); J. Walia, K. Glaser (NYSDEC)
2 Dozers, trackhoe, roller, water truck, backhoe	
PPM, Inc. Model 1005 HAM; HNU Model HW-101 P	ID with 10.2 eV lamp
MATERIALS PLACED/WORK COMPLETED: Completed placement of select fill over subbase by fini With the completion of the select fill, site became cons	
COMMENTS: Air monitoring ended today with the completion of the of select fill also eliminated the need for modified pers	6" lift of select fill over existing subbase material. The completion sonal protection (Tyveks, boots, gloves, etc.) under OSHA Section
1910.120 Hazardous Waste and Emergency Response I	Regulations,
In on-site meeting with NYSDEC, we explained the couthe landfill. Walked the site with NYSDEC and showe modifications we presented. J. Walia said we would have	nfiguration problems which have developed along the south end of them this area while they looked at a sketch of the configuration ave a decision tomorrow (8/23).
Informed by contractor that geomembrane crew should	be on-site on Wednesday, 8/24.
Proof-rolling of entire layer of select fill completed. N	o problem was noted.
TECHNICIAN (print): 1. Joseph Dorety (signed):	Tun

CLIENT: Strippit, Inc.	DATE: 8/23/94 Tuesday
PROJECT: Interim Remedial Measure Construction	WEATHER: 70°F
LOCATION: Akron, N.Y.	TEMPERATURE: Clear
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-28
PERSONNEL AND EQUIPMENT ON SITE: R. Kampff (Day); Foreman, equipment operator, laborer	(Haseley)
MATERIALS PLACED/WORK COMPLETED: No materials placed today. Contractor preparing site for	geomembrane installation.
COMMENTS: Minor grading along drainage trench south of site.	

TECHNICIAN

(print): R. Kampff
(signed): A suppose of the suppo

CLIENT: Strippit, Inc.	DATE: 8/24/94 Wednesday
PROJECT: Interim Remedial Measure Construction	WEATHER: Overcast
LOCATION: Akron, N.Y.	TEMPERATURE: 75°F
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-29
PERSONNEL AND EQUIPMENT ON SITE: R. Kampff (Day); Foreman, equipment operator, laborer	(Haseley); J. Walia (NYSDEC)
MATERIALS PLACED/WORK COMPLETED: Preparation of haul road for geomembrane placement.	
COMMENTS: Walked site with J. Walia to discuss geomembrane config NYSDEC),	uration along railroad right-of-way (i.e., option #2 presented)
Walked site with J. Walia to discuss geomembrane config	uration along railroad right-of-way (i.e., option #2 presented t
Walked site with J. Walia to discuss geomembrane config	uration along railroad right-of-way (i.e., option #2 presented
Walked site with J. Walia to discuss geomembrane config	uration along railroad right-of-way (i.e., option #2 presented)
Walked site with J. Walia to discuss geomembrane config	uration along railroad right-of-way (i.e., option #2 presented
Walked site with J. Walia to discuss geomembrane config	uration along railroad right-of-way (i.e., option #2 presented
Walked site with J. Walia to discuss geomembrane config	uration along railroad right-of-way (i.e., option #2 presented
Walked site with J. Walia to discuss geomembrane config	uration along railroad right-of-way (i.e., option #2 presented
Walked site with J. Walia to discuss geomembrane config	uration along railroad right-of-way (i.e., option #2 presented
Walked site with J. Walia to discuss geomembrane config	uration along railroad right-of-way (i.e., option #2 presented
Walked site with J. Walia to discuss geomembrane config	uration along railroad right-of-way (i.e., option #2 presented
Walked site with J. Walia to discuss geomembrane config	uration along railroad right-of-way (i.e., option #2 presented
Walked site with J. Walia to discuss geomembrane config	uration along railroad right-of-way (i.e., option #2 presented
Walked site with J. Walia to discuss geomembrane config	uration along railroad right-of-way (i.e., option #2 presented
Walked site with J. Walia to discuss geomembrane config	uration along railroad right-of-way (i.e., option #2 presented

TECHNICIAN

(print): R. Kampff
(signed): January

CLIENT: Strippit, Inc.	DATE: 8/25/94 Thursday
PROJECT: Interim Remedial Measure Construction	WEATHER: Cloudy, Rain (a.m.)/Sun, Clouds (p.m.)
LOCATION: Akron, N.Y.	TEMPERATURE: 60°F (a.m.)/75°F (p.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-30
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety (Day): Foreman, 1 equipment operator, laborer geomembrane installer (3 Environmental Security Systems D3 Dozer, trackhoe, roller, water truck, backhoe, front en	5)
MATERIALS PLACED/WORK COMPLETED:	
visible problems.	op of landfill. Additional proof-roll of select fill completed - no
First roll of HDPE moved to top of landfill with front en	d loader.
Sandbags placed in rows on top of landfill.	
COMMENTS: Approximately 150 sandbags filled and placed on top of le	andfill as temporary anchors for HDPE panels.
Part of liner crew on-site, remainder of crew to be on-site	tomorrow. Problems with generator - shaft is locked up.
	crease and clouds became very threatening. With winds gusting
<u> </u>	
TECHNICIAN (print): Il Joseph Dorety (signed):	

CLIENT: Strippit, Inc.	DATE: 8/26/94 Friday
PROJECT: Interim Remedial Measure Construction	
	WEATHER: Partly Cloudy, Fog (a.m.)/Sunny (p.m.)
LOCATION: Akron, N.Y.	TEMPERATURE: 62°F (a.m.)/75°F (p.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-31
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety, R. Kampff (Day); Foreman, 1 equipment opera Roblee (NYSDEC)	ator, laborer (Haseley): Foreman, 4 laborers (ESS): J. Walia, W
D3 Dozer, trackhoe, roller, water truck, backhoe, front e	nd loader, liner seaming equipment, field testing equipment
MATERIALS PLACED/WORK COMPLETED: 5 full length panels (east/west) 34 short panels (southwest) Seam between panel #1 and panel #2 air tested with pasel	st slopes), all seams of panels placed have been fusion welded, ssing results.
Approximately 70% of seam between panel #2 and pane	1 #3 air tested with assuring results.
Samples for destructive testing of seams removed (D-1, I	D-2, D-3, D-4, D-5)
COMMENTS: Approximately 50,000 ft ² of geomembrane was installed to	oday.
Seaming machine operating at 750°F and traveling at a ra	ate of 16 feet/minute.
QA/QC samples run on test seams at beginning of day a	nd at mid-day.
Areas where samples for destructive seam tests were rem	oved were patched,
Received approval from NYSDEC today to use barrier p	rotection material an anchor trench backfill.
Load of select fill material (liner protection) delivered to	site.
Y	

TECHNICIAN

(print): __ (signed):_

CLIENT: Strippit, Inc.	DATE: 8/27/94 Saturday
PROJECT: Interim Remedial Measure Construction	WEATHER: Cloudy (a.m.)/Sunny (p.m.)
LOCATION: Akron, N.Y.	TEMPERATURE: 65°F (a.m.)/80°F (p.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-32
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety (Day): Foreman, 1 equipment operator, laborer D3 Dozer, roller, water truck, front end loader, liner sear	(Haselev): Foreman, 4 laborers (ESS): W. Roblee (NYSDEC)
The state of the s	mang volument, new testing extrapritent
Seams of south slope panels, southwest panels and pull par	nels (east/west) to gas well have all been air tested (41 air tests) rill be extrusion welded. [Note: Extrusion weld completed on
COMMENTS: Approximately 70,000 ft ² of geomembrane installed today. OA/OC performed on seaming equipment at beginning of strength pass criteria established by National Seal Compa	of day and at mid-day. All test seams tested for seal and shear
No samples taken today for destructive sampling of seams	They will be taken on Monday (8/29).
TECHNICIAN (print): I. Jeseph Dorety (signed):	

CLIENT: Strippit, Inc.	DATE: 8/29/94 Monday
PROJECT: Interim Remedial Measure Construction	WEATHER: Sunny (a.m.)/Sun, Clouds (p.m.)
LOCATION: Akron, N.Y.	TEMPERATURE: 55°F (a.m.)/75°F (p.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-33
Roblee, K. Glaser (NYSDEC): R. Crouch (Buffalo Drilli	
D3 Dozer, roller, water truck, backhoe, front end loader,	liner seaming equipment, field testing equipment
of extrusion welding patches and seam ends. Samples for a - 48 done today (all tests passed).	nd northeast slopes. All seams welded and beginning detail work destructive tests D-6 to D-14 taken continued air testing of seams nechor trench. Began select fill placement on panels #1 and #2.
this area to J. Walia and K. Glaser of NYSDEC after our DEC wants to know areal extents of the problem. Vertica backhoe. We will attempt to determine the extent of warranteed to be a second of the problem.	cal extent was determined to be 5.0' below grade with the use of vestward migration toward the property line tomorrow. At that ing of soils. Contamination appears to extended approximately
R. Crouch pointed out locations of active and abandoned	
	· \
TECHNICIAN (print): J. Jaseph Dorety (signed): Jour Jour	

CLIENT: Strippit, Inc.	DATE: 8/30/94 Tuesday
PROJECT: Interim Remedial Measure Construction	WEATHER: Clear, Sunny
LOCATION: Akron, N.Y.	TEMPERATURE: 55°F (a.m.)/75°F (p.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-34
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety (Day); Foreman, 2 equipment operators, 2 labor K. Glaser (NYSDEC) D3 Dozer, roller, water truck, backhoe, front end loader.	ers (Haseley): Foreman, 4 laborers (ESS): M. Doster, J. Walia liner seaming equipment, field testing equipment
patches being ground for extrusion welding. Seams and pa vacuum box system. All tested areas passed.	ned yesterday on the northwest slope. Edges of T-seams and atches previously having been extrusion welded being tested with toe of slope and being pushed up to top of landfill, leveled to
COMMENTS:	repared a staging/containment area for petroleum-contaminated
HW-101 PID with 10,2 eV lamp and a Century OVA Mo	thor trench were screened during removal with an HNU Mode del 128GC FID. At a depth of 6.0' - PID reading of 0.0 ppm ected confirmatory sample SS-2 from bottom of anchor trench, with petroleum-like odors.
Had additional length of liner extrusion welded to end of trench,	panel which passes through overexcavated section of anchor
Positioned liner in anchor trench and backfilled with barr	ier protection material compacted with gas-powered tamper.
Contractor again using select fill to form an access road t	to the top of landfill for dumptrucks and grading material from
Dumpster delivered today for site clean-up.	

(print): Il Joseph Dorety (signed): Joseph

TECHNICIAN

CLIENT: Strippit, Inc.	DATE: 8/31/94 Wednesday
PROJECT: Interim Remedial Measure Construction	WEATHER: Cloudy, Occasional Light Rain
LOCATION: Akron, N.Y.	TEMPERATURE: 60°F (a.m.)/70°F (p.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-35
PERSONNEL AND EQUIPMENT ON SITE: R. Kampff, J. Dorety (Day): Foreman, 2 equipment operat	ors, 2 laborers (Haselev): H. Musall (ESS): K. Glaser (NYSDEC
D3 Dozer, roller, backhoe, front end loader, liner seaming	ng equipment, field testing equipment
East side anchor trench excavated liner placed and trench north anchor trench excavated. Select fill placement con COMMENTS:	h backfilled in 6"-8" lifts and compacted. Approximately 70% o

TECHNICIAN

(print): Noseph Doxety (signed):

DATE: 9/1/94 Thursday

CLIENT: Strippit, Inc.

TECHNICIAN

(print): __ (signed):_

PROJECT: Interim Remedial Measure Construction	WEATHER: Mostly Cloudy, Some Sun
LOCATION: Akron, N.Y.	TEMPERATURE: 60°F (a.m.)/75° (p.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-36
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety (Day): Foreman, 2 equipment operators, 2 labor surveyor and assistant	rers (Haseley): H. Musall (ESS): J. Walia, K. Glaser (NYSDEC
D3 Dozer, backhoe, front end loader, roller, field testing	equipment
MATERIALS PLACED/WORK COMPLETED: Testing completed indicates geomembrane was installed completed, ESS measuring for record plans. Haseley cont slope. Surveyor verifying elevations of select fill which h	in accordance to required tolerances. Final vacuum box testininues to place select fiil and on the anchor trench along the nor as been placed—and compacted.
COMMENTS: Haseley placing select fill on top and also along west/non Began placing barrier protection material over select fill trucks.	near south end of west slope in an attempt to have access for
Initial survey measurement indicate that elevations of sel	ect fill coming in on proposed grade.

CLIENT: Strippit, Inc.		DATE: 9/2/94 Friday
PROJECT: Interim Res	medial Measure Construction	WEATHER: Partly Cloudy
LOCATION: Akron, N.	.Ү.	TEMPERATURE: 60°F (a.m.)/75°F (p.m.)
CONTRACTOR: Hasel	ey Trucking Company	REPORT NO.: 2430-37
PERSONNEL AND EQUI J. Dorety, R. Kampff (Da		ators, 2 laborers (Haseley); K, Glaser (NYSDEC)
D3 Dozer, backhoe, from	end loader, roller	
	inues. Placement of select on so	outh slope completed.
Anchor trench along nort	h slope completed.	
Loads of select being stoo	ckpiled on top and spread to gra	de.
	removed at the time of the draistall silt fences and clean out ero	nage ditch excavation. sion control measures due to long weekend (Labor Day).
	print): J. Joseph Dorety & A	Kampff

CLIENT: Strippit, Inc.	DATE: 9/6/94 Tuesday
PROJECT: Interim Remedial Measure Construction	WEATHER: Sunny (a.m.)/Clouds, Light Rain (p.m.)
LOCATION: Akron, N.Y.	TEMPERATURE: 50°F (a.m.)/70°F (p.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-38
PERSONNEL AND EQUIPMENT ON SITE: R. Kampff, J. Dorety (Day); Foreman, 2 equipment opera D3 Dozer, roller, backhoe, front end loader, water truck	ntors, 2 laborers (Haseley): J. Walia, J. Tuk, K. Glaser (NYSDE)
DO DOZET, TOMET, VACAMOE, MOME ENG HOAGET, WALES THEE	
Select fill placement on top of landfill completed. Contract with select fill. Contractor began excavation of drainage to grade being compacted with a vibratory roller.	ctor finishing northwest sloe and proceeding around to north sloed ditch to too of northeast slope. Select fill which has been place
COMMENTS:	
On site meeting with NYSDEC today. No concerns exp	ressed by NYSDEC regarding progress to this point.
Inspected sample of topsoil today that contractor has collegoing to drop off sample at Malcolm Pirnie a tend of day	ected. Material appears to be within spec, parameters, Contract by for pH analysis and organic content determination.
Haseley intends to add additional buildozer on 9/7/94 to	o increase progress.
TECHNICIAN (print): 1 Joseph Dorety	

CLIENT: Strippit, Inc.	DATE: 9/7/94 Wednesday
PROJECT: Interim Remedial Measure Construction	WEATHER: Clouds (a.m.)/Sun (p.m.)
LOCATION: Akron, N.Y.	TEMPERATURE: 60°F (a.m.)/70° (p.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-39
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety (Day); Foreman, 3 equipment operators, 2 labor Wolf (Wolf Nursery)	rers (Haseley): K. Glaser (NYSDEC); Surveyor and assistant, I
D5 and D3 dozers, roller, front end loader, water truck, h	packhoe
MATERIALS PLACED/WORK COMPLETED: Select fill still being placed. Select fill on to of landfill ha Barrier protection material being placed on southwest are	ea of top of landfill after select fill elevations were verified.
COMMENTS: Backhoe off-site in early morning when D5 dozer delivered	ed.
in size. I informed the contractor that I had refused the	vered today were refused. Material contains cobbles up to ~10 barrier protection material and that he needed to remedy the ug taken out of wrong area of pit. Material which was delivered
Landscaper subcontracted by Haseley on site to discuss see mix used at the BFI landfills. He will submit proposed so	eding mixture. Modification to specification is basically the same
Contacted Dick Owen (Erie County Highway) regarding scheduled work for 9/21/94.	cleaning of CMP under Clarence Center Road. Tentatively
*** ** * · · · · · · · · · · · · · · ·	

PROJECT: Interim Remedial Measure Construction	
The state of the s	WEATHER: Partly Cloudy
LOCATION: Akron, N.Y.	TEMPERATURE: 55°F (a.m.)/70°F (p.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-40
PERSONNEL AND EQUIPMENT ON SITE: R. Kampff, J. Dorety (Day); Foreman, 3 equipment opera	ators, 2 laborers (Haselev); K, Glaser (NYSDEC)
2 Dozers, roller, front end loader, water truck	
landfill and on south slope (i.e., areas that were previously	tue to heating of liner. Will let cool overnight and attempt to
cover in morning.	see to mountain or milet. What for each overhight and attempt to
Water added to barrier protection material to improve co	mpaction.
Water added to barrier protection material to improve co	g for first lift of barrier protection material. They can have
Water added to barrier protection material to improve co	g for first lift of barrier protection material. They can have

CLIENT: Strippit, Inc.	DATE: 9/9/94 Friday
PROJECT: Interim Remedial Measure Construction	WEATHER: Partly Cloudy
LOCATION: Akron, N.Y.	TEMPERATURE: 64°F (a.m.)/75°F (a.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-41
PERSONNEL AND EQUIPMENT ON SITE: R. Kampff, J. Dorety (Day); Foreman, 3 equipment oper Kron (SJB Services)	ators, 2 laborers (Haselev): J. Walia, K. Glaser (NYSDEC): R.
2 Dozers, roller, front end loader, water truck	
material. First lift placement complete by mid afternoon	lem areas noted). Continuing placement of barrier protection rotection material covering southern half of landfill. Remainder
Malcolm Pirnie to verify proctor results. They later calle	e-place density testing reveals compaction less than 90%. Called back and asked us to describe the gradation of the material error had been made during initial testing, therefore, a sample
Air pocket in liner observed on 9/8/94 has disipated. At	rea covered with select fill,
[Note: Haseley worked on 9/10/94 placing second lift of on 9/9/94.]	barrier protection material above material that had been tested
TECHNICIAN (print): J. Joseph Doxety (signed):	

CLIENT: Strippit, Inc.	DATE: 9/12/94 Monday
PROJECT: Interim Remedial Measure Construction	WEATHER: Clear, Fog (a.m.)/Sunny (p.m.)
LOCATION: Akron, N.Y.	TEMPERATURE: 58°F (a.m.)/70°F (p.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-42
PERSONNEL AND EQUIPMENT ON SITE: R. Kampff, J. Dorety (Day); Foreman, 2 equipment oper Donner (SJB Services); D. Wierzba (Field Services, Inc.)	ators, 2 laborers (Haseley); J. Walia, K. Glaser (NYSDEC); K.
2 Dozers, roller, front end loader, water truck Troxler Model 3430 Moisture - Density Gauge	
MATERIALS PLACED/WORK COMPLETED: Second lift of barrier protection material being completed and tested for in-place density by SJB Services. Testing of Collected samples from staged drums for disposal analysis	
COMMENTS: Second lift of barrier protection material should be comp Crew is compacting immediately after material is to grade	
On-site meeting with NYSDEC. No major concerns expe	ressed.
Field Services, Inc. on-site to determine how gas well pip	ing will be routed. Wants to begin tomorrow.
TECHNICIAN (print): 1 Doseph Dorety (signed): 1 July 1 of	

CLIENT: Strippit, Inc.	DATE: 9/13/94 Tuesday
PROJECT: Interim Remedial Measure Construction	WEATHER: Partly Cloudy
LOCATION: Akron, N.Y.	TEMPERATURE: 65°F (a.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-43
D. Wierzba (Field Services, Inc.)	rers (Haseley): K. Glaser (NYSDEC); Surveyor and 2 assistan
2 Dozers, roller, water truck, front and loader	
elevation, Second lift of barrier protection placed and being compact	roposed. Grades are ~1" to 2" higher than proposed second li
all field density tests pass. Surveyor marked elevation for third lift of barrier protectide depressions and/or high areas.	density and 10.7% optimum moisture, these results confirm the ion and final grade. Overall grade looks good with no appare rmination of westward extent of petroleum-contaminated soil work.
TECHNICIAN (print): J. Joseph Dorety (signed): July 1	

	DATE: 9/14/94 Wednesday
PROJECT: Interim Remedial Measure Construction	WEATHER: Overcast
LOCATION: Akron, N.Y.	TEMPERATURE: 70°F
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-44
PERSONNEL AND EQUIPMENT ON SITE: R. Kampff (Day): 2 equipment operators, 2 laborers, fore Wierzba (Field Services, Inc.)	eman (Haseley): J. Walia, sampling technician (NYSDEC): D
MATERIALS PLACED/WORK COMPLETED: None	
COMMENTS:	
north slope. Since sediment fencing had been removed to lot. Haseley spent much of the day cleaning parking lot a	
NYSDEC on-site to collect three (3) sediment samples fr north of Clarence Center Road, samples to be tested for	om a drainage trench west of the Strippit. Inc. parking lot and metals by NYSDEC lab.

TECHNICIAN

(print): R. Kampst
(signed): Typerrows Company

CLIENT: Strippit, Inc.

CLIENT: Strippit, Inc.	DATE: 9/15/94 Thursday
PROJECT: Interim Remedial Measure Construction	WEATHER: Partly Cloudy
LOCATION: Akron, N.Y.	TEMPERATURE: 65°F (a.m.)/75°F (p.m.)
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-45
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety (Day): Foreman, 1 equipment operator, 2 labor	rers (Haseley): K. Glaser (NYSDEC):
2 Dozers, backhoe, roller, front and loader	
HNU Model HW-101 PID with 10.2 eV lamp; Century O	VA Model 128GC FID
Excavated three test pits at western property line, approxencementered in anchor trench. COMMENTS: No evidence of petroleum contamination found in any of	

(print): 1 Joseph Do (signed): her

TECHNICIAN

CLIENT: Strippit, Inc.	DATE: 9/16/94 Friday
PROJECT: Interim Remedial Measure Construction	WEATHER: Partly Cloudy, Humid
LOCATION: Akron, N.Y.	TEMPERATURE: 75°F
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-46
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety (Day): Foreman, 2 equipment operators, 2 laborations.	orers (Haseley); J. Walia (NYSDEC);
2 Dozers, backhoe, roller, front and loader	
HNU Model HW-101 PID with 10.2 eV lamp; Century C	DVA Model 128GC FID
Third lift of barrier protection material placed and comp Contractor is working on grading topsoil above proof-roll	acted.
COMMENTS: <u>Topsoil has some roots and branches in it that are being tracking with D3 dozer.</u>	picked out by laborer. Compaction of topsoil is being done by
Petroleum-Contaminated soil continued in a small area b Strippit could be notified of situation.	beyond the west property line. Stopped at property line until
Approximately 100 yd ³ of contaminated soils removed an	d stockpiled.
Excavation made to remove petroleum-contaminated soil	was backfilled with barrier protection material and compacted
40.4	

TECHNICIAN

(print): J. Jaseph Dorety
(signed): 222

DATE: 9/19/94 Monday

WEATHER: Partly Cloudy

CLIENT: Strippit, Inc.

TECHNICIAN

PROJECT: Interim Remedial Measure Construction

LOCATION: Akron, N.Y.	TEMPERATURE: 75°F
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-47
PERSONNEL AND EQUIPMENT ON SITE: R. Kampff (Day); Foreman, 2 equipment operators, lab	orer (Haseley): J. Walia, J. Tuk, K. Glaser (NYSDEC)
2 dozers, backhoe, roller	
MATERIALS PLACED/WORK COMPLETED: Monitored proof-rolling of final lift of barrier protection	n material; no problem areas noted.
Following proof rolling topsoil placement continued thro	oughout the landfill.
COMMENTS: Final weekly construction meeting held with Haseley an	d NYSDEC.
`	

(print): R. Kampff
(signed): - Taymond Campff

CLIENT: Strippit, Inc.	DATE: 9/20/94 Tuesday
PROJECT: Interim Remedial Measure Construction	WEATHER: Overcast
LOCATION: Akron, N.Y.	TEMPERATURE: 70°F
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-48
PERSONNEL AND EQUIPMENT ON SITE: R. Kampff (Day): Foreman, equipment operator, 2 labor	ers (Haseley); J. Walia (NYSDEC)
1 dozer, backhoe	
MATERIALS PLACED/WORK COMPLETED: Contractor continuing with the placement of topsoil through	ughout site.
Excavation of drainage trench along north side of site.	
COMMENTS: Contractor picking out larger pieces of roots from topsoil	I by hand.
Larry Wolf made several tests of the topsoit's nH using	a test kit. Testing indicated topsoil was within acceptable range
and additives were not required.	TOST WILL TOSTING WOMEN TO SAME WAS WITHIN GERNAUDIC LOUIS

TECHNICIAN

(print): R-Kampff
(signed): Ampff

DATE: 9/21/94 Wednesday

PROJECT: Interim Remedial Measure Construction	WEATHER: Sunny
LOCATION: Akron, N.Y.	TEMPERATURE: 70°F
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-49
PERSONNEL AND EQUIPMENT ON SITE: R. Kampff (Day); Foreman, equipment operator, 2 labor	rers (Haseley); surveyor and assistant
Dozer, backhoe	
HNU PI-101	
MATERIALS PLACED/WORK COMPLETED: Completed placement of topsoil throughout site. Larger	r roots picked out by hand.
Surveyor checked grade and determined it was within se	veral inches of design elevation.
Completed evaluation and removal of petroleum-contamin in stockpile.	nated soil along western property line. Excavation material placed
Drainage trench along western side of side completed. Ce the area off-site of south of stockpiled petroleum soil).	Contractor also graded and placed topsoil on west side of site (i.e.,
· · · · · · · · · · · · · · · · · · ·	

TECHNICIA**N**

CLIENT: Strippit, Inc.

(print): R Kampff
(signed): The same of th

CLIENT: Strippit, Inc.	DATE: 9/22/94
PROJECT: Interim Remedial Measure Construction	WEATHER: Sunny
LOCATION: Akron, N.Y.	TEMPERATURE: 70°F
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-50
PERSONNEL AND EQUIPMENT ON SITE: J. Dorety (Day): Foreman, equipment operator, 2 laborer	rs (Wolf Nursery)
backhoe, roller.	
Finn Hydroseeder	
Work trailers being prepared for demobilization. COMMENTS: Good coverage during hydroseeding. The only area that we to the gravel parking lot at the north. This area will not	vas not seeded was the area of the haul road south of staged soils be seeded until petroleum-contaminated soils are removed.
TECHNICIAN (print): II, Joseph Doretty (signed): July Gi	

DATE: 10/19/94 Wednesday

PROJECT: Interim Remedial Measure Construction	WEATHER: Overcast/rain
LOCATION: Akron, N.Y.	TEMPERATURE: 55°F
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-51
PERSONNEL AND EQUIPMENT ON SITE: R. Kampff (Day): Operator, five (5) drivers (Modern Land)	ndfill, Inc.)
Front end loader, 2 trailer and 3 tandem dump trucks	
MATERIALS PLACED/WORK COMPLETED: Petroleum-contaminated soil stockpile loaded and remove New York,	ed from the site for disposal at Modern Landfill, Inc. Lewiston.
thinner on top of former disposal area.	nigh throughout site. Growth appears thicker on side slopes and
Same erosion areas noted along northern slope and within	n southern drainage trench.

TECHNICIAN

CLIENT: Strippit, Inc.

(print): R. Kampff
(signed): C. January

CLIENT: Strippit, Inc.	DATE: 10/20/94 Thursday					
PROJECT: Interim Remedial Measure Construction	WEATHER: Overcast					
LOCATION: Akron, N.Y.	TEMPERATURE: 60°F					
CONTRACTOR: Haseley Trucking Company	REPORT NO.: 2430-52					
PERSONNEL AND EQUIPMENT ON SITE: R. Kampff, J. Dorety (Day); driver (Buffalo Fuel)						
MATERIALS PLACED/WORK COMPLETED: Reconnaissance of IRM construction area made to identif Overpack drums picked up for off-site disposal.	y punch list items for Haseley to close out site.					
Several areas requiring additional work (e.g., former petro	pleum-contaminated soil stockpile, erosion areas, etc.) defined					
COMMENTS: Several areas requiring additional work (e.g., former petro Haseley subsequently contacted to schedule final site clear	pleum-contaminated soil stockpile, erosion areas, etc.) defined a-up/closeout.					
Several areas requiring additional work (e.g., former petro	pleum-contaminated soil stockpile, erosion areas, etc.) defined a-up/closeout.					
Several areas requiring additional work (e.g., former petro	pleum-contaminated soil stockpile, erosion areas, etc.) defined a-up/closeout.					

strippit.log

CLIENT: Strippit, I	пс.	DATE: 11/8/94 Tuesday					
PROJECT: Interim	Remedial Measure	WEATHER: Partly Cloudy, Breezy					
LOCATION: Akror	ı, N.Y.	TEMPERATURE: ~55°F					
CONTRACTOR: H	Iaseley Trucking Company	REPORT NO.: 2430-53					
	QUIPMENT ON SITE: equipment operators/laborers, truck	driver (Wolf Nurseries)					
Ford 555B backhoe.	John Deere 550G bulldozer, dumptru	ıck					
Punchlist items: Rem property line: remove grading: created 2.5' hin scrap steel roll-off ceroded soils in areas various areas of landireduce possibility of futo preclude erosion p from topsoil in previous landfill. COMMENTS: Areas of re-graded of	ed accumulated sediments from sediments high berm along northeast and south secontainer; re-graded bermed soils along of southern and western drainage swill; placed hay bales in invert of sout urther erosion; changed point of configurablems; added additional silt fence a pusly seeded areas; dismantled drum second	on and flow impeding vegetation from drainage ditch along we nentation basin and placed along western side of landfill for sides of sedimentation basin; cleaned drum carcasses and place g western side of landfill to approximate original grade; replace ale and on north slope of landfill; filled in horse hoof prints in hern and western drainage swale to reduce flow velocity and sence of the western drainage swale and northern drainage swale to north end of re-graded area; removed majority of larger root taging area; filled area which had settled in stone area north of the swill be done when Wolf returns to demobilize their					
equipment,							
Drum of discarded P	PE needs to be disposed of by Hasel	ey.					
Field Services, Inc. no	eeds to repair northeast slope of land	fill which has settled after installation of natural gas line.					
		THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED AND ADDRESS O					
	· · · · · · · · · · · · · · · · · · ·						
TECHNICIA N	(print): J. Joseph Dorety (signed): J. Joseph Dorety						

strippit.log

APPENDIX H

Field Density Test Results



Contract Drilling and Testing

EOX 5793-1 1951 Hamburg Tumpike Buffalo, NY 14218

FIELD IN-PLACE DENSITY TEST REPORT

Phone: (716) 821-5911 Fax: (716) 821-0163

PR	OJECI	: :	STRIPP	OT LA	NOFICE			LOCATION:	AKRON N.Y.	
			DAY					FOR-I		
CC	NTRAC	TOR:	_/toses	cy The	WKAG	Co. 1-	Ic.	PROJECT NO:	T-272	
WE TE	ATHER MPERA	R/: TURE	<u> </u>	UNNY		189		DATE:	9-9-94	
Test No.	Date of Test	Depth Eevation		In-place Moisture (%)	% Compaction	Proctor Code	·	Location	and Remarks	
/	9-9	1ST LIFT	118.8	11.3	99.2	1	TEST #	A-1		-
2			116.9	8.9	97.7		TEST	B· Z		
3				i	97.6	1		C-Z		
4			1]	99.4			B-(
5			1		98.4			*C-1		
6			1	1	99.3		Į	* D-1		
7				1	98.Z		1	E-1		
8			116.9	12.1	97.7			E-1		
9			118.3	12.2	98.8		(*G-1		
10				1	97.9		ļ	H-(
//			117.3	8.8	98.0		1	H-Z		
12			118.8	9.5	99.2		TEST #			
13					99.7		Test #			
Proctor Code	Maxim Density	- 1	Optimum Moisture (%)					terial Type and So	urce	
1	119.	7	10.7	SANO.	+ G-& AVE	ma	TERIAL:	PINE HILL SA	NO ANO COMPE	
C	ommen	ts:	95%	Com	nenew	Reta	11RED /	CANGE #	23724	
T	echni	cian	: Say	Kun			- 		ly Submitted,	
T:	ime O	n Si	/ t e:	2 30 70	23c			SJB SERVIC	ES, INC.	



Contract Drilling and Testing

EOX 5793-1 1951 Hamburg Tumpike Buffalo, NY 14218

FIELD IN-PLACE DENSITY TEST REPORT

Phone: (716) 821-5911 Fax: (716) 821-0163

Pr	(CO EC	·	STOP	CHT Z	ANDFI			LOC.	ATION: _	AKRON N.Y.	····
CI	LIENT:	·	Day e	ENG/N	EEUN	4		REP	ORT NO:_	FPR-1 p	g.2
CC	ONTRAC	CTOR:_	HASA	EY TR	rickuig	Co.	he.	PRO	JECT NO:	T-272	<u>.</u>
WI	EATHER EMPERA	R/:	5	ching.	681	<u>- </u>		DAT	E: _	FPR-1 0 T-272 9-9-94	
Test No.	Date of Test	Depth or Elevation	in-place Density (pcf)	In-place Moisture (%)	% Compaction	Proctor Code			Location	and Remarks	
14	9-9	LIFT	114.2	8.3	97.1	1	TEST	E-2			
15			116.4	9.5	97.2		TEST	D-2			
16			122.4	10.3	100+		TEST	E-3			
17			116.6	8.9	97.4			D-3			
19			120.1	9.9	100+		Test	C-3	<u></u>		
	•						<u> </u>				
							1				
						-					<u>.</u>
-	1						i i		-		
		<u> </u>	 				1			·	
Des ets e	Maria	 				<u></u>					
Proctor Code	Maxim Density		Optimum loisture (%)				М	aterial T	ype and So	urce	<u> </u>
1	119.	7	10.7	SANO	ANO CT	BAVEL	MATER	١٨٤:	PINE HILL	SAND + GRAVEL	
	-		 								
C	ommen	ts: _	95%	² empse	nas K	QUILL	D /	CAUSE	#2372	4	
T	echni	cian:	Day #	ron	<u> </u>		_	Res	pectful	ly Submitted, ES, INC.	
T	ime O	n Site	a:	230 70	230	<u></u>		30 E	124	K.	



Time On Site:

PROJECT: STRIPPIT LANDFILL

Contract
Drilling
and
Testing

EOX 5793-1 1951 Hamburg Tumpika Buffalo, NY 14218

FIELD IN-PLACE DENSITY TEST REPORT

LOCATION: AKON, N.Y.

Respectfully Submitted, SJB SZRVIÇES, INC.

Phone: (716) 821-5911 Fax: (716) 821-0163

CL	CLIENT: DAY ENGINEERING							REPORT	NO:_		-DI	<u>ر ح</u>	<u> </u>	
CO	CONTRACTOR: HASELEY TENCKING CO., INC.								NO:			-27	2_	
WE.		/: <u>≤</u>	14 M M				 	DATE:	-	9-12	2-94	L		
Test No.	Date of Test	Depth o	, .	In-place Moisture (%)	% Campaction	Proctor Code		Lo	cation	and R	emark:	S		
1	9-12		119.2	7.7	99.6	1	A-2							
2	·	15 UFT	115.3	8.5	96,3	.,	A-3							!
3		1红 LIFT	120.2	8.9	100+	1,	B·3		·					i
4		155	120.3	88	100+	',	F-3							
5		151 LIFT	- 1231	10.3	100+	1	6-3		· -					
6		151	- 115.0	8.1	96.1	1,	H-3							
7		LIFT	- 117.5	٦,١	98.2	''	6-4			-				
8		157	111.8	7.0	93.4		F-4			·				
9		131	116.3	7.2	97.2	``	E-4				·			
10		155		8.6	99.5	"	D-4		· · · · · ·					
11		LIF	T 117.2		97.9	,,	C-4					<u> </u>		
12			7 115.8		96.7	"	B-4	, <u></u>						
13			119.9	8.7		<u> '`</u>	C-5		, * r					
Proctor Code	Maxim Density		Optimum Moisture (%)				Mate	erial Type a	and So	ource				
	119.	7-	10.7	SANO	+ GRAV	e n	ATERIAL .	PINE HI	<u>LL 5</u>	ANO A	NO G	BAVE		
								_ 						
				<u> </u>				·						
C	ommen	ts: 🤇	FAUCE 2	372 <u>A</u>	- 95	% 7	CEQUIRE				 -			



Time On Site:

PROJECT: STRIPPIT LANDFILL

Contract Drilling and Testing

BOX 5793-1 1951 Hamburg Tumpike Buffalo, NY 14218

FIELD IN-PLACE DENSITY TEST REPORT Phone: (716) 821-5911 Fax: (716) 821-0163

LOCATION: AKRON, N.Y

Respectfully Submitted, SJB SERVICES, INC.

CL:	IENT:	1	DAY ENG	INEER	ING		REPORT NO: 1-DR-Z pg:Z
		TOR:	HASELEY	TRUCK	LING CO	1,100	PROJECT NO:
WE.	ATHER MPERA	/:_ <u>\$</u> Tur e	· PHACE	51°			DATE: 9-12-94
Test No.	Date of Test	Depth o		In-place Moisture	% Compaction	Proctor Code	Location and Remarks
14	9-12		115.2	7.7	96.2	1	D.5
15			- 115.2	9.0	96.2	1.	RETEST = 2, AFTER FURTHER COMPACTION
16			118.6	8.4	99.1	١.	RETEST # 12, ""
17		151	r 119.1	9.0	99.5	1,	RETEST # 2 \$15, ""
19		155	- 112.9	7.1	94.3	١,	Retest # 14, " " "
19		155	1113.2	7.3	94.6	1.	RESTEST #14\$18, "
20			7/1185	7.0	99.0	15	RESTEST # 8
21		1 21 LIF	7 115.2	6.7	96.2	'`	RETEST # 6
22		LIF	7 116.4	7.6	97.2	1	RETEST #14,18,19, "
23		151	T 115.4	6.5	96.4		RETEST # 6421, "
24		15T	113.8	6.5	99.2	1,	PETEST # 6,21,23, " " "
Proctor Code	Maxim Density		Optimum Moisture (%)				Material Type and Source
	119	. 7	10.7	SANG	ANOG	RNVEL	MATERIAL: PINE HILL SANO + GRAVEL
C	ommen	ts:	GAUGE	237	24-	95%	· REQUIRED

APPENDIX I

Seeding Schedule and Documentation

WOLF'S NURSERY

6083 FISK ROAD LOCKPORT, NEW YORK 14094 PHONE 716-625-8153 FAX 716-625-7963

SEPTEMBER 8, 1994

HASELEY CONSULTANTS 10315 LOCKPORT ROAD NIAGARA FALLS, NEW YORK 14304

RE: STRIPPIT - LANDOFILL 12975 CLARENCE CENTER ROAD AKRON, NEW YORK 14001

SEED SPECS # 50 CROWN VETCH PER ACRE PLUS:

200# PER ACRE OF: CREEPING RED FESCUE 50% PERENNIAL RYEGRASS 45% WHITE CLOVER 5%

PLUS ON THE NORTH SLOPE WE WILL ALSO ADD A TACKING AGENT TO INCREASE SLOPE STABILITY - APPROX 1 ACRE, AT NO ADDITIONAL COST

WOLF'S NURSERY

6083 FISK ROAD LOCKPORT, NEW YORK 14094 PHONE 716-625-8153 FAX 716-625-7963

OCTOBER 17, 1994

DAY ENGINEERING 2144 BRIGHTON HENRIETTA TOWNLINE ROAD ROCHESTER, NEW YORK 14623

DEAR JOE,

ENCLOSED IS LETTER OF SEED CERTIFICATION FOR STRIPPIT HYDROSEEDING COMPLETED BY WOLF'S NURSERY.

AT THE TIME OF SEEDING I COMPLETED 6 PH TESTS AND ALL FELL IN THE RANGE OF 6.5 - 7.0 WHICH IS A NEUTRAL TO VERY SLIGHTLY ACID RANGE. I FEEL THIS IS A NORMAL TEST AVERAGE.

SINCERELY,

LARRY & WOLF

LJW/gh

P.O. Box 398 485 Ludwig Ave. Buffalo, NY 14225

September 14, 1994

Wolf Nursery 6083 Fish Rd. Lockport, NY 14094

To Whom It May Concern:

This is to certify that we at Kinder Seed have supplied 1000# of Strippit Mixture to Wolf Nursery as per specifications given below:

% by weight	<u>Type</u>
50%	Creeping Red Fescue
45%	Perennial Ryegrass
5%	White Clover

The above mixture was mixed and tagged in accordance with all federal and state seed laws.

Sincerely,

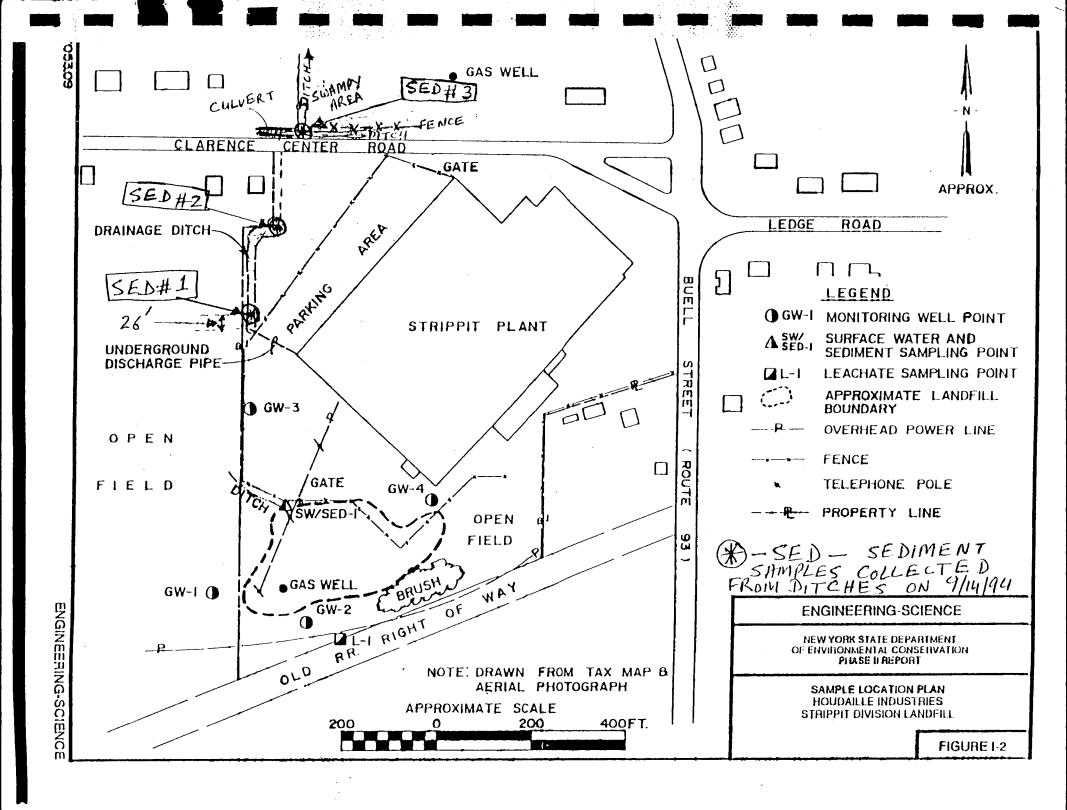
Jack Bryant

Kinder Seed, Inc.

JB/jpb

APPENDIX J

September 14, 1994 Sediment Sampling



New York State Department of Environmental Conservation 270 Michigan Avenue, Buffalo, New York 14203-2999



Langdon Marsh Commissioner

MEMORANDUM

TO:

Mr. Jaspal Walia

FROM:

Dr. Frances Yang 7-7.

SUBJECT:

Trace Metals Analysis of Sediment Samples from Strippit Site

DATE:

October 3, 1994

On September 14, 1994, three sediment samples were taken from Houdaille-Strippit, and submitted to the DEC laboratory on September 14, 1994, for Barium, Cadmium and Lead Analysis.

USEPA Method 3051 - Microwave Digestionend Method 6010 - Inductively Coupled Plasma Atomic Emission were used for the analysis with method detection limit of 1 PPM.

Results are presented in microgram per gram (PPM) on dry-weight basis:

Sample Designation	<u>Barium</u>	<u>Cadmium</u>	Lead
DEC-64, Sample #1(5ED#1)		3	87
DEC-65, Sample #2 (SED#2)	76	< <u>1</u>	69
DEC-66, Sample #3 650#3)	725	<1	118

vam

cc:

Mr. James Strickland/File

ost-It" Fax Note	7 67 1	Dale D-4-94 pages
O Paul Eau	ω- -	From Jaspa Walta
Co /Dept.		Co.
Phone #		Phone #
Fax #		Fex #