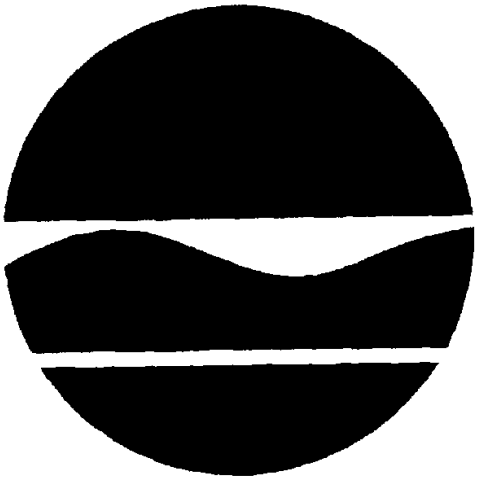
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

ALTECH SPECIALTY STEEL SITE, SITE #907022
DUNKIRK(C), CHAUTAUQUA COUNTY

REPORT ON ACTIVITIES
EMERGENCY REMOVAL ACTION
REMOVAL ACTION #9098 HAZ.



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New York State Department of Environmental Conservation
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1.0 INTRODUCTION

1.1 INTRODUCTION

On September 23, 2002, NYSDEC initiated an environmental removal action contract, Contract #D100112, with Nature's Way Environmental Contracting and Consulting Services (Nature's Way) to complete removal of exposed Kolene® salts, sludge and contaminated steel at the AlTech Specialty Steel Site. The Kolene® salt existed in a special bath and was used for cleaning specialty steel. Financial circumstances with the AlTech Specialty Steel Company had allowed this bath to be rendered inoperative which allowed the normally molten salt to cool into a solid state. The Kolene® was determined to be hazardous because it contained hexavalent chromium which, if it were to be allowed to come in contact with water, would leach the hexavalent chromium into the environment. The removal action was initiated to prevent further deterioration to the environment and mitigate potential for exposure.

The removal action included, remelting and removal of molten Kolene® salts, dismantling the operational portion of the salt baths, cutting, removal and disposal of the Kolene® bath. In addition, the walls and surrounding tanks were cleaned where impacted by splattered or spilled Kolene®. Tank shells, were decontaminated and recycled when feasible and cost effective. Hazardous salts were drummed and disposed at the Chemtron facility in Avon, Ohio. Contaminated steel fiberglass and unconsolidated salts were placed into rolloffs and disposed of at the PermaFix facility in Brownstown, Michigan. A photographic log detailing the removal action is included in this report (see Site Photographs). Total contractor costs for the removal action including sample analysis, trucking and disposal was

$232,084.23. A table listing all the Contractors Application for Payment(s) is included as Table 3.

1.2 SITE DESCRIPTION

The AL Tech Specialty Steel Site, Site Number 907022 is a 90 acre active industrial site located at 4 Howard Avenue in the City of Dunkirk , New York (see Fig. 1). AlTech Specialty Steel (AlTech) manufactured stainless steel rod, bar, and wire from 4.5" billets. The site is a fenced property containing numerous steel manufacturing buildings located adjacent to residential areas. Located 625 feet to the west is a playground and 800 feet further to the west is the Dunkirk High School. Running through the property along the southeastern edge is a tributary to the nearest surface water, Crooked Brook. Lake Erie is approximately 2000 feet to the west. A deep groundwater flow trend would be expected to the west toward Lake Erie. However, there has been a radial flow pattern noted in the shallow groundwater because of localized groundwater directional influences such as sewers, utility laterals, etc. . .

The building where the Kolene® removal was completed is located in an active pickling room within the Bar Storage and Finishing Mill (BFS) (see site photographs, page 20). BFS is currently used by Dunkirk Specialty Steel as a steel washing and pickling room and remained in operation throughout the removal action. The former Kolene® tanks were located in a concrete containment structure which was connected to a sump that collected spray and drag out from the washing and pickling process and pumped it over to the on-site

water treatment system.

1.3 SITE HISTORY

Altech Specialty Steel filed for bankruptcy in 1999 and emerged reorganized as Empire Specialty Steel. However, further financial problems have plagued the company which went bankrupt again in 2001. Since that time the facility has been obtained by the current owner of the property operating as Dunkirk Specialty Steel.

In 1992 the former AlTech submitted a Resource Recovery and Conservation Act (RCRA) Facility Assessment (RFA) in accordance with the RCRA Corrective Action Program. Information obtained during this assessment identified 24 Solid Waste Management Units (SWMU's) and 11 Areas of Concern (AOC).

One of the AOCs was located within a portion of the site currently being utilized as a pickle facility by Dunkirk Specialty Steel known as the Bar Finishing and Storage Mill (BFS). Within a portion of the BFS was the unused Kolene® molten salt bath tank which contained solidified salts consisting of both trivalent and hexavalent chrome. The unused Kolene® salts left in this state had the potential to contribute to chromium contamination at the site.

2.0 REMOVAL ACTION

2.1 PROJECT SCOPE

The project scope of the removal action included the following tasks:

- Remelt and pump as much molten Kolene® into drums as possible.
- Remove Kolene® sludge then, cut and dispose of the Kolene® tank.
- Clean up all spilled Kolene® .
- Disconnect from utilities and clean the Kolene® Quench Tank.
- Dispose of all Kolene® wastes

2.2 SITE PREPARATION

On January 10, 2003, Nature's Way mobilized to the Al Tech facility to prepare the site for remelting of the Kolene® salt tank (see site photographs, page 21). To make the tank more accessible Nature's Way spent a day removing accumulated salts from the top of the tank covers and around the burner assemblies. Additional drums of waste Kolene® and materials that were from the former operation were also removed. The accumulated waste material was placed into a hopper and a skid steer was used to transport the salts from the pickle room outside to the lined hazardous waste rolloff.

To prepare for the disposal of the molten Kolene®, Natures Way mobilized 2 fork lift trucks and 200 unpainted, 55 gallon drums which were placed on pallets and banded together. The pallets had a 10 gauge steel plate placed on each of them to prevent the heat of the molten salt from igniting them. To prevent accidental spillage Nature's Way also

fabricated a special top to cover the drums of Kolene® during transport and staging.

The removal of molten salts required a pneumatic pump which was provided by the Kolene® Corporation, a subcontractor to Nature's Way. Nature's Way, under the direction of the Kolene® Corporation, provided the piping and lifting support for the pump.

2.3 REMELTING AND PUMPING OF KOLENE® SALT

On January 14, 2003, Kolene® Corporation had 3 people onsite to maintain a 24 hour a day oversight of the heating tank. As the original manufacturer's of the tank at the AlTech site the Kolene® personnel were very familiar with the electronic controls and the entire salt bath technology. Because the Kolene® salt is liquid at approximately 600 degrees F and typically operates at over 900 degrees F. Their expertise was essential to the safe, controlled melt down and pumping of the Kolene® salts.

The Kolene® tank unit consisted of a double walled insulated steel tank. Typically delivered in a molten state, the salt is delivered by truck and placed into the tank. To maintain the molten state the tank was heated with 28 burners supplied by natural gas. These burners forced hot air into a burner tube. To ensure flow of hot air throughout the tubes a series of blowers were attached to the tubes. The exhaust from the burners was then pulled through the heating tubes and blown out a stack just outside the pickle room facility.

The Kolene® Corporation personnel started by checking the status of the electrical systems and the burner blower fans. Once the blowers were proven functional, Kolene® Corp. was able to ignite 26 of 28 burners (see site photographs, page 22). The two remaining burners had blocked heating tubes and were unusable. Heating the Kolene® to 950 degrees F. was achieved by noon on January 16, 2003, approximately 54 hours from the first burners being ignited. It was maintained at this temperature until 3:00 PM on January 17, 2003.

To minimize disturbance of the steel plant's operations the pumping of the Kolene® salt was scheduled for second shift on January 17, 2003. Because of the hazardous nature when working with material at such a high temperature extra safety precautions had to be taken. For example personnel were suited in aluminized kevlar suits with gloves, boot spats and hoods for protection when working with the hot Kolene.

Kolene® Corporation had provided a pneumatic driven submersible pump capable of transferring the molten salt. This pump was piped to a discharge which had a tee bar where two workers would direct the flow. The discharge would be placed into an unpainted, empty, 55 gallon drum place four to a pallet. A Kolene® Corporation person would open the air line connected to the pump which activated the pump. After a drum was filled with Kolene® the workers would transfer the discharge to an empty drum until all on a pallet were filled. After a pallet was filled a special lid was placed on the drums and the pallet was taken by forklift to be staged for cooling in the pickling room. The drums were allowed to cool until the next day which allowed the salts to return back to the solidified state. The drums were then transferred to a holding area to await final disposal.

The pumping of the tank resulted in 161 drums of Kolenc® salt and the entire pumping process was completed in an 8 hour shift. The final task completed the night of the pump out was the removal of the heating tubes from the tank. Each burner tube was disconnected and a fork lift would raise them up and out. The burners were set on the concrete floor to cool to await cleaning and recycling or disposal. After pumping out the Kolene® tank there was approximately one foot of Kolene® salt and sludge left in the bottom of the tank. This sludge would have to be removed after it had cooled and the tank was dismantled.

2.4 REMOVAL OF SOLID KOLENE® SLUDGE, CUTTING AND DISPOSAL OF KOLENE® TANK

The next task was to dismantle the Kolenc® tank which required removal of the hardened residual Kolene® salt sludge. Nature's Way began this phase on January 21, 2003. Original tank removal work plan tasks were completed on March 10, 2003.

To complete the tank dismantling operation Nature's Way began by removing the top frame work for the covers, disconnecting gas lines. All the steel from the tank, covers, utilities and access hardware were cut away using oxygen/acetylene torches and an oxygen lance. Used mainly for cutting thicker pieces of steel an oxygen lance is a rod attached to a welding type handle that when connected to a high rate flow of oxygen only produces a small plasma arc for cutting. The rods necessary for the lance lasted approximately 45 seconds. Because of this need for changing of the rods with such frequency, which required workers

to raise their cutting masks to change out the rods, this proved to be no quicker than an oxygen/acetylene torch.

As the tank was being dismantled, field decisions had to be made to determine which steel could be effectively and economically decontaminated for recycling or would have to be sent for disposal. Labor intensive decontamination using steam producing pressure washers would be required before steel could be sent off the site as scrap steel to a local salvage yard. Conversely, steel designated to be disposed of as hazardous waste would need to be cut into pieces with no dimensions larger than 3' before being placed in a roll off container for disposal. Therefore, steel was first segregated to determine which steel could be easily decontaminated or which steel could not be decontaminated and would have to be disposed. For example, an attempt to decontaminate the burner tubes, which represented a large amount of steel, was abandoned because of their unique shape and the fact that scraping, washing and pressure washing did not remove the layer of Kolene® salt from the exterior of the steel.

The total amount of steel salvaged for recycling was 40 tons. Most of this steel available for recycling was the 1" and ½" steel that made up the interior shell of the tank. A total of 60 cubic yards of hazardous steel was sent off site for disposal.

During the tank removal Nature's Way had to address removal of the hardened Kolene® sludge. The sludge, when cooled, was physically the same as the original salt, very hard and solid. On February 3, 2003, Nature's Way first tried using a pneumatic jack hammer, but it did not have the power to penetrate the solidified salts. A backhoe with a hoe

ram was brought onsite on February 4, 2003 to break up the salts. Other deposits of Kolene® salts spilled around the tank were also broken up with the hoe ram.

As the outer shell of the tank was cut away it exposed the insulation layer that was found to be contaminated with Kolene® salt as well. The insulation was designated hazardous waste and put in the hazardous salts roll off. Work below ground level was not started until confirmation, which was received from Dunkirk Specialty Steel on February 4, 2003, that electric power was disconnected to all equipment in and around the Kolene® tank. The tank was completely dismantled and removed from the sump on February 20, 2003.

There was a lot of residual salts adjacent to the tank, resulting from spillage and drag out from steel being moved. Between the Kolene® tank and the Kolene® quench tank was approximately 2 feet of Kolene® wastes. Because of these residuals the burner blowers and walkway supports could not be removed until salts were dug out from around them by hand. After the tank and the associated equipment were removed from the sump the sump area was excavated and hand shoveled around the support columns. This area was then cleaned with the pressure washer.

The total weight of Kolene® salt wastes, including the drummed waste and the spilled materials, was 169 tons.

Roll off containers had been staged just outside the pickle room for 3 different waste streams, hazardous salts, hazardous salt contaminated steel and scrap steel. The decontamination waters were first contained in a poly tank, then analyzed, and ultimately

disposed of at the Dunkirk Specialty Steel wastewater treatment plant.

2.5 SALT SPRAY REMOVAL

As part of the clean up process, Nature's Way was directed to clean a section of the north wall approximately 60' wide and 20' high. This section of wall had accumulated years of splashed Kolene® salts that resulted in a crusted layer on the walls and anything attached to the walls. Some pipes and ledges had accumulated as much as a foot of salts.

To completed the cleaning Nature's Way scraped off the thick salts with shovels and brooms using a mechanical man lift to access the higher portions of the wall. The dry salts were scraped and shoveled up and placed in the hazardous salts roll offs. The wall then received a final cleaning using the steam pressure washer. Any wash waters were collected and sent to the Dunkirk Specialty Steel wastewater treatment facility for treatment.

This work was undertaken concurrently with Kolene® salt removal and was finished on March 3-5, 2003.

2.6 KOLENE® QUENCH TANK REMOVAL

Additional work beyond the scope of the work assignment was completed at the request of the Department. This work included the cleaning and removal of the quench tank that was adjacent to the Kolene® tank. Although technically not a Kolene® tank the quench

tank was used to rinse the Kolene® from previously dipped steel. Sample results determined that the sludge and water in the tank were contaminated with high levels of chromium found in the Kolene® tank. Additionally, there was enough residual Kolene® around and outside of the tank as well as a quantity of sludge within the tanks to support tank removal and be cost effective.

Nature's Way began this additional work on March 11, 2003. To get to the sludge in the tank a foot of water from this tank was pumped to the Dunkirk Speciality Steel wastewater treatment facility for treatment. After removing as much free liquid as possible, Nature's Way utilized a vacuum truck to remove approximately a foot of very wet sludge from the bottom of the tank. The sludge was then pumped into two rolloffs for eventual disposal. The wet sludge was stabilized for transport and disposal with approximately 1.2 tons of clay absorbent. The total weight of quench tank sludge and absorbent for disposal was 18.9 tons.

To facilitate the cleaning and cutting, the empty quench tank was placed on top of the concrete piers the Kolene® tank was originally mounted on. Nature's Way then completed the tank cleaning and cut the tank for recycling.

2.7 WASTE DISPOSAL

164 drums of Kolene® salt were labeled for disposal on February 26, 2003 and picked up for shipment to Chemtron Corp in Avon, Ohio on February 27, 2003. Waste Kolene® salts and Kolene® contaminated steel were placed into 12 rolloffs of Kolene®. These rolloffs

were then shipped, 2 rolloffs a day for 6 days from March 31, 2002 through April 7, 2003 to Perma-fix in Brownstown, Michigan. Appropriate manifests were prepared for the shipment of these hazardous wastes and are included in Appendix 3. As stated in above paragraphs all water generated from the project was containerized and then treated at the Dunkirk Specialty Steel wastewater treatment plant. Forty tons of steel that could cost effectively be decontaminated was cleaned for recycling and shipped to O'Brocta Salvage in Dunkirk New York.

3.0 ANALYTICAL RESULTS

Only four samples were collected during this removal action. The sampling was limited to informational or disposal sampling. Pre-removal sampling for disposal for the Kolene® waste was analyzed for both total and TCLP metals. Analytical results (see Appendix 5) determined that the total chromium was 50,000 mg/kg (ppm) of which 42,000 ppm was hexavalent chromium. Further analysis of the waste determined that the Kolene® failed the TLCP limits of 5 ppm for chromium with a TCLP result of 2,500 ppm. These analytical results limited the disposal options since the waste would require treatment before disposal.

Additional sampling was completed on the decontamination water to determine if the facility's waste water treatment plant could teat the water. Analytical results determined that there was 570 ppm total chromium in the water with 480 of this being hexavalent chromium. The treatment of this was not determined to be a problem for the facility and was actually co-beneficial. It was co-beneficial because while the decontamination water required an acidic

addition to "fix" the hexavalent chromium to its more stable tri-valent state the process water required acid neutralization of the waste stream.

Additional work beyond the scope of the removal action was the decommissioning of the Kolene® quench tank. To determine if this tank contained waste resulting from the Kolene® process, the sludge remaining at the bottom of the tank was sampled. Analytical results determined that the quench tank contained total chromium of 12,000 ppm. These results proved more than anecdotal evidence that the tank was part of the Kolene® process. This coupled with the fact that the tank was covered with the Kolene® salts and would require cleaning, supported the decision to go beyond the scope of the action and require the removal and disposal of the quench tank.

4.0 SUMMARY

On September 23, 2003 the NYSDEC initiated a removal action standby contract to remove waste Kolene® salts that had been allowed to solidify from its normally molten state at the AlTech Speciality Steel Site, Site #907022. Kolene® contains hexavalent chromium which if were allowed to come into contact with water could have leached the hazardous hexavalent chromium into the environment.

To complete the removal action in a manner that would be least disruptive to the current operations at the facility Nature's Way, the NYSDEC remediation contractor, subcontracted the original manufacturers of the salt bath to re-melt the Kolene® facilitating removal. The salt was removed and placed into 164, 55 gallon drums for eventual disposal

at the Chemtron facility in Avon, Ohio. The remaining Kolene® and sludge was allowed to cool and resolidify and was physically broken up for disposal. The remaining tank cut up and fourty tons of steel were cost effectively cleaned for recycling. Residual Kolene®, insulation, contaminated steel, and associated contaminated equipment was consolidated into 10 rolloffs for eventual disposal at the Perma-fix facility in Brownstown, Michigan. Additional work beyond the original scope of the removal action included the removal of the Kolene® quench tank. Because the tank was ancillary to the Kolene® operation it was determined that the tanks should be removed and any residual contents disposed of properly. The tanks contained sludges and water. The water was first pumped off and treated at the facility's waste water treatment plant. Remaining sludge was placed into 2 rolloffs and mixed with absorbent clay for disposal at Perma-fix.

Work at the site was competed with the removal of the last rolloff on April 7, 2003. Total cost for the removal action, including laboratory costs, trucking and disposal was $232,084.23.

5.0 CONCLUSIONS

The removal action was successful in removing the hazardous hexavalent chromium and chromium containing salts and sludges, mitigating the immediate threat of exposure to the source materials. The action was completed in a fairly expiditious manner, but more importantly, was completed safely. In addition, the action was completed with minimal facility disruption, in the cleanest manner possible.

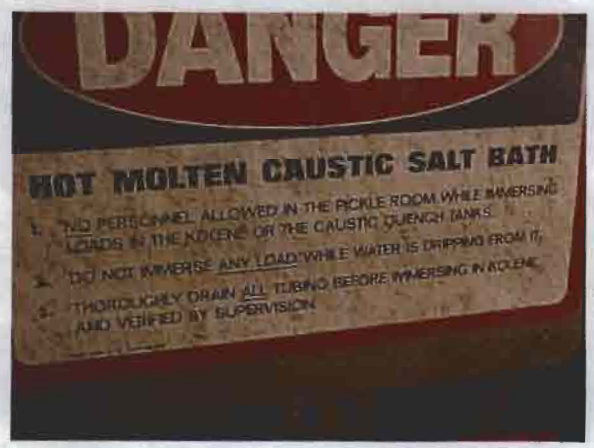
The re-melt did not remove the Kolene® completely, however, it did minimize the amount of hardened salt requiring physical breaking. This, in turn, reduced the amount of hazardous, fugitive dusts. The work proceeded slower than anticipated because the contractors only worked during the second shift to allow for uninteruptcd operation of the facility and the oxygen lance obtained for cutting the steel tank did not speed work.

The project costs were double the original estimate. This was likely due to thc inefficiency of the second shift work, the cost of disposal of individual drums of Kolene® and the increased cost to remove the quench tank, which was not a part of the original estimate.

SITE PHOTOGRAPHS

Site Location

Kolene® salt baths destined for removal were located in the Bar Storage and Finishing Mill of the AlTech Specialty Steel Facility.



Kolene® is a caustic molten salt pickling bath for the cleaning and descaling of alloy steels. The proprietary salts are heated to a temperature of 850° to 900°F where it attains a liquid, pumpable state.

Because the baths were allowed to cool at the AlTech site the baths had re-solidified.

Current operations at the facility use the pickle room for much of the same processes but only use acids and water soluble, cleaning materials. However much water is sprayed around in the process. Kolene® is highly soluble in water and contains hexavalent chromium. Because of these factors a significant threat to the environment existed.

Site Preparation

An Emergency Removal Contract was initiated with Nature's Way Environmental Services to remove the solidified Kolene® from the tanks.

The contract also called for salt removal from where it had spilled or sprayed on walls....

the tank and .....

on associated equipment.

Salt Removal Operations

It was decided that it would be cleaner and more efficient if the Kolene® was first reheated and remelted. Nature's Way subcontracted the design/builders - Kolene® Corporation to oversee the re-melting operation.

26 of 28 burners were re-ignited....

it took a total of three days to attain the molten state of 850°F.

The pump out required a special pneumatic pump attached to a lifting hoist.

With the Kolene® melted and the pump in place it was time to start the work.

Dressed in special heat resistant suits the workers manipulated the pump discharge to place the Kolene® into unpainted 55 gallon drums. These drums were placed 4 to a pallet protected by a steel sheet.

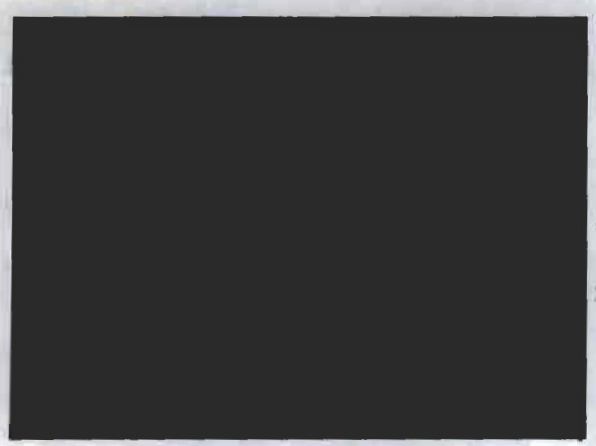
Once a pallet of drums were filled another pallet of empties were placed to be filled.

Liquid Kolene® drums were transferred to a cooling area. The drums were covered with a special cover to minimize any splashing during transport.

Filled liquid Kolene® drums cooling.

While the Kolene® was being pumped out the burner tubes were removed.

In addition to the burner tubes a sludge box had to be removed.



As anticipated the removal of associated equipment after the melting operation reduced the amount of cleaning required.

Once the Kolene® tank cooled it was time to cut the shell of the tank. Both Oxy-Acetylene torches and a small oxygen lance were used to cut the tank.

About a foot of residual Kolene® and sludge could not be pumped and had to be hammered out of the tank.

Once the ram broke the solid material up it could be scooped out.

This left the cleaned bottom of the tank which had to be cut.

The bottom of the tank was removed to reveal the support piers.

The blowers which circulated the hot air to melt the Kolene® had to be removed.

The blowers and associated equipment was caked with solid Kolene® making their removal very labor intensive.

Any steel that could be salvaged was steam cleaned for disposal.

Although not part of the original specifications and because it was covered with Kolene® it was decided to remove the Kolene® quench tank.

There was a quantity of liquid at the bottom of the quench tank that first had to be pumped out with a vacuum truck.

Workers had to go into the tank to complete this operation.

Once pumped out the quench tank was removed for recycling.

With the walls all cleaned...

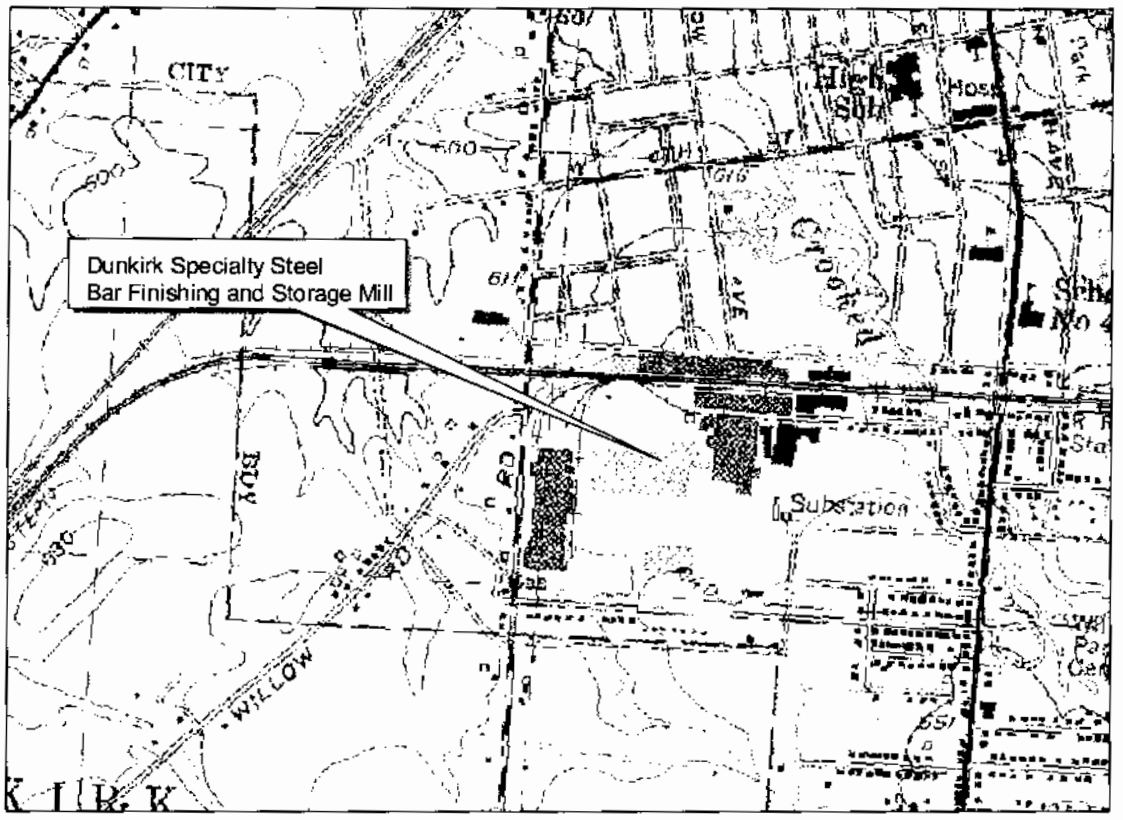
and the floor all clean....

...the waste material all boxed...

...and ready for transport to its final destination, work on this removal action was complete.

FIGURES

Site Map



ALTech Specialty Steel
Site No. 907022
Dunkirk (C), Chautauqua County

TABLES

Table 1
AlTech Specialty Steel, Removal Action
Waste Disposal

Date	Ship. #	Manifest #	Weight (gross)	Weight (tare)	Weight (Net)	Weight (tn)	Waste Type	Disposal Destination
4/7/03	1	MI 9028289	57440	41140	16300	8.15	Salt/fiberglass	Perma-fix (MI)
3/31/03	2	MI 9028290	75900	39000	36900	18.45	Salt/fiberglass	Perma-fix (MI)
3/31/03	3	MI 9028291	75980	39500	36480	18.24	Salt/fiberglass	Perma-fix (MI)
4/1/03	4	MI 9028292	72840	39000	33840	16.92	Salt/fiberglass	Perma-fix (MI)
4/1/03	5	MI 9028293	72180	40380	31800	15.90	Salt/fiberglass	Perma-fix (MI)
4/2/03	6	MI 9028294	70120	40500	29620	14.81	Salt/fiberglass	Perma-fix (MI)
4/3/03	7	MI 9028295	65260	41160	24100	12.05	Salt/fiberglass	Perma-fix (MI)
4/7/03	8	MI 9028296	62300	41800	20500	10.25	Salt/fiberglass	Perma-fix (MI)
4/2/03	9	MI 9028297	68060	40460	27600	13.80	Salt/fiberglass	Perma-fix (MI)
4/4/03	10	MI 9028026			0	20.00	Steel	Perma-fix (MI)
4/4/03	11	MI 9028027			0	20.00	Steel	Perma-fix (MI)
4/3/03	12	MI 8691042			0	20.00	Steel	Perma-fix (MI)
		Totals	620080	362940	257140	128.57		
2/27/03	13	NYG3446433	57				Salt (drums)	EDT/Chemtron (OH)
2/27/03	14	NYG3370068	51				Salt (drums)	EDT/Chemtron (OH)
2/27/03	15	NYG3446442	56				Salt (drums)	EDT/Chemtron (OH)
		Drums	164					

Table 2 AlTech Specialty Steel, Removal Action Contractor's Application for Payment(s) CAP Requests						
Invoice Number	02-237-01	02-237-02	02-237-03	02-237-04	02-237-05	02-237-06
Invoice Date	1/24/03	3/27/03	4/28/03	4/28/03	6/18/03	7/24/03
Contractor	Nature's Way	Nature's Way	Nature's Way	Nature's Way	Nature's Way	Nature's Way
Invoice Amount	$55,917.27	$109,159.09	$6,732.84	$41,780.09	$17,956.62	$1,948.66
Payment Amount	$54,506.93	$109,159.09	$6,732.84	$41,780.09	$17,956.62	$1,948.66
Description of work	Remelt activities	Labor to cut and dismantle tanks, molten Kolene® disposal	Haz. Material disposal	Haz. material disposal, final site work	Transport of Kolene® waste to Perma-Fix	Consolidate rolloffs for final transport

Table 3 AlTech Specialty Steel, Removal Action Lab Contractor's Application for Payment(s) CAP Requests				
Invoice Number	0301087-2344	0301935-2344	0301788-2344	0303391-2344
Invoice Date	1/22/2003	2/17/2003	2/17/2003	3/26/2003
Contractor	Life Science Labs	Life Science Labs	Life Science Labs	Life Science Labs
Invoice Amount	$180.82	$108.18	$86.11	$180.13
Payment Amount	$180.82	$108.18	$86.11	$180.13
Description of work	pickle tank composite	TCLP pickle tank	De-con Water	disposal characterization

Total cost of removal action equals the sum of all invoices by contractors = $232,084.23

APPENDICIES

Appendix 1

STANDBY REMOVAL ACTION WORK ASSIGNMENT (SRAWA)

ALTECH SPECIALTY STEEL SITE, SITE #907022DUNKIRK(C), CHAUTAUQUA COUNTY STANDBY REMOVAL ACTION WORK ASSIGNMENT (SRAWA)PROJECT WORK PLAN SEPTEMBER 2002

I. BACKGROUND

The New York State Department of Environmental Conservation (NYSDEC) has determined that the unused Kolene® molten salt cleaning tank located in Dunkirk Specialty Steel's (formerly AL Tech) Bar Finishing and Storage (BFS) pickling room constitutes an imminent environmental threat. The BFS tank has been inactive since June of 2001 and contains approximately 86 tons of solidified salts and sludges that were left in the tank when the process was shut down. The current occupant of the facility, Dunkirk Specialty Steel, does not plan to use the Kolene® tank. To mitigate environmental impacts of this installation NYSDEC has prepared this Work Plan to remove the tank and its contents as soon as feasible.

Kolene® is a registered trademark of Kolene® Corporation of Detroit, Michigan, which manufactures molten salt bath technologies for single source processes for metal cleaning and treating. The Kolene® tank contained a molten mixture of alkaline sodium and potassium hydroxides and proprietary additives for the process of de-scaling stainless steel products at the pickling facility. The tank was typically maintained at temperatures between 700 and 800 degrees Fahrenheit. Since June 2001 the bath has been inactive which has allowed the salts to cool into a hard mass. The solidified contents of the tank and residuals that were deposited on the adjacent floors and surrounding equipment are classified as a D007 listed hazardous waste containing high concentrations of chromium.

The tanks are located within the confines of the Dunkirk Specialty Steel facility (the Site) located in the southwest portion of the City of Dunkirk in Chautauqua County, New York. A site location map illustrating the facility's location and property boundaries is presented on Figure 1.

II. SITE DESCRIPTION

The former ALTech Specialty Steel Site is a Class 2 hazardous waste site in the Registry of Inactive Hazardous Waste Disposal Sites (Registry). The site is a 90 acre active industrial site with a portion currently owned and operated by Dunkirk Specialty Steel. Dunkirk Specialty Steel continues the former operation including the manufacture of stainless steel rod, bar, and wire from 4.5" billets.

In 1992 the former ALTech submitted a Resource Recovery and Conservation Act (RCRA) Facility Assessment (RFA) in accordance with the RCRA Corrective Action Program. Information obtained during this assessment identified 24 Solid Waste Management Units (SWMU's) and 11 Areas of Concern (AOC). Over the period 1995-1997 the company conducted a RCRA Facilities Investigation (RFI) which has documented hazardous waste disposal in areas of the plant. The final RFI is expected in 2003, however the project has been held up by bankruptcy proceedings.

One of the AOCs is located within a portion of the site currently being utilized as a pickle facility by Dunkirk Specialty Steel. known as the Bar Finishing and Storage Mill (BFS). Within a portion of the BFS is the currently unused Kolene® molten salt bath tank which contains solidified salts containing both trivalent and hexavalent chrome. In its current state, the unused Kolene® salts could contribute to chromium contamination at the site.

The RFI has documented the disposal of hazardous waste at levels that are impacting the environment i.e. groundwater and surface water /sediments. Monitoring of the groundwater has found exceedances of standards for metals, such as chromium, and chlorinated solvents. The limited data suggests the contaminated groundwater is migrating off-site. Significant levels of metals in surface soils and from abandoned alkaline salt baths may be contributing to metals being found in surface waters leading from the site (i.e. chromium detected at 630 ppb in stream vs. 50 ppb guidance value). Due to the residential area surrounding the site and the proximity of the surface water stream which has been impacted by site run-off, the site was listed in the Registry.

III. OBJECTIVES OF THE REMOVAL ACTION

The objectives of this removal action are:

- Remove and properly dispose all D007 solidified waste Kolene® salts from existing tanks in the Dunkirk Specialty Steel Bar Finishing and Storage mill. This objective is to be attained with the least disruption to the active facility, in a cost effective manner, causing the least amount of waste handling.

- Remove and dispose, by recycling as practical, all associated steel parts of the tank.

- Decontaminate and clean remaining areas within a fifteen foot radius.

- Remove and dispose remaining Kolene® from the Brigham Road Plant not covered in the work plan by RealCo.

IV. SCOPE OF WORK

This SRAWA consists of :

- Obtaining the services of a Kolene® representative prior to the removal work to inspect the work site and to determine if removing the majority of the remaining Kolene® by remelting is feasible. (If the Kolene® representative determines that the remelt is not feasible, the solidified salts will have to be removed by mechanical means as necessary)

- Obtaining an up to date quote for the remelting of the Kolene®.

- Assisting, as required, the Kolene® representative during the remelt and pumpout of the salts.

- Obtain all necessary drums, pallets and drum handling and transportation equipment.

- Remove by mechanical means as required any residual sludge remaining from the remelt and pumpout.

- Decommission, clean and recycle all steel tanks and material as practical.

- Clean and decontaminate as determined by the NYSDEC all surrounding areas of the Kolene® tank.

- Properly manifest, arrange for transport and disposal all D007 waste.

- Properly remove and dispose remaining Kolene® from within the Brigham Road Plant as required by the

NYSDEC.

- Properly dispose all non hazardous material.

- Provide a short letter report detailing work, equipment required and expenditures, including, disposal receipts and manifests, copies of any photographs and work logs.

Details of the work distribution for this program are presented in the 'Notice to Proceed' letter issued for this SRAWA project unless otherwise specified.

IV.1 KOLENE® TANK WASTE REMOVAL/DECOMMISSIONING:

A. Due to the production and operational requirements of Dunkirk Specialty Steel, scheduling, coordination and worker protection requirements of work within the BFS Pickling Room shall be arranged with Dunkirk Specialty Steel. It is anticipated that with sufficient advance notification, the Standby Removal Action Contractor (SRAC) will be allowed to perform the work necessary with minimal interruptions. However this may include working off-shift and weekends to complete the work.

B. The SRAC shall establish a decontamination area for equipment and personnel outside of the BFS Pickle room. All major decontamination performed shall be performed outside of the pickle room. A personal protective equipment (PPE) donning and removal/disposal station shall be established to minimize tracking of impacted dirt and debris outside of the decontamination area. Adjacent to the PPE station, a large equipment decontamination station shall be established for brushing and vacuuming of impacted debris and dirt from equipment.

C. The SRAC shall remove solid D007 salt waste from the BFS tank by re-melting[1] and/or by mechanical

[1]The process of remelting is a process that requires Kolene® oversight and expertise. The performance of this operation also requires the cooperation of Dunkirk Specialty Steel. The Kolene® tank is re-commissioned to allow the melting of the Kolene® whereupon it can be directly pumped into drums for disposal. It is believed that approximately 150,000 lbs. of Kolene® can be removed in this manner leaving approximately 30,000 lbs of sludge that will have to be hammered out. This removal method is preferred because it should allow for the least interruption to the operation of the active facility.

means (e.g. backhoe ram or other comparable method). All internal steel tank components, including 1-inch thick inner steel shell will be cut up into manageable pieces and recycled as much as possible. Decontamination of steel by pressure washing or steam cleaning shall be performed in a manner to minimize waste generation.

D. To determine the feasibility of the remelting operation the SRAC will obtain the services of a Kolene® representative to come to the facility, in advance, and assess the tank and its present condition. The ability to recommission the Kolene® tanks and the ability to remelt the salts will be determined by the Kolene® representative. A quote had previously been received from Kolene® to do this work. It will be the responsibility of the SRAC to obtain an updated quote for the remelting operation.

E. The SRAC shall be responsible for molten salt containerization and disposal. This will include providing drums, pallets, drum moving equipment etc.. as required by Kolene®. The SRAC shall be responsible for manifesting, transportation and disposal of the drummed Kolene® and any additional sludge and waste characterized as hazardous D007 waste.

F. The remelting operation of the Kolene® will result in residual sludge that cannot be pumped for disposal. This is anticipated to be approximately 30,000 lbs. Once heated this material becomes viscous but cannot be removed by a pump. Therefore, this material will have to be allowed to cool until it solidifies. Once hard this material will have to be chiseled out by mechanical means either by hand or by ram-hoe. This material will be disposed of as D007 hazardous waste.

G. Any D007 salt waste and contaminated steel components that are not suitable for recycling shall be segregated for proper disposal in lined bulk roll-off containers. These containers shall be covered and secured when filled or stored outdoors.

H. Once the Kolene® is removed, the exterior steel shell shall be, cut up mechanically or with acetylene torches, cleaned and removed and disposed of as non-hazardous scrap steel by SRAC. If insulating brick and residual insulating materials has not been impacted by the D007 then, all material from interstitial space between tanks shall be disposed of as non-hazardous solid waste by The SRAC.

I. The exterior tank superstructure components that have been coated with the D007 residuals (including: quench tank drip pan, floor grating, gas feed lines, agitators, support steel, etc..) shall be removed and decontaminated if suitable for recycling or disposed as hazardous D007 contaminated waste. All

material of this nature shall be placed in lined roll-off containers. All roll-off containers will be covered when not in use and placarded as required. An exclusion zone will be maintained around the roll-offs to restrict access to the staged containers until disposal.

J. The SRAC shall assume that all loose D007 waste residuals that have been deposited within a 15-foot perimeter around the Kolene® and Quench Tanks, on the floors and within the floor pit shall be removed and disposed of as hazardous waste. Removal techniques may include manual scraping, shoveling and vacuuming or other similar methods. Water may be introduced for the purposes of cleaning or washing these surfaces and must be vacuumed or pumped and disposed or sent to the waste water treatment facility for treatment, if acceptable to Dunkirk Specialty Steel. If acceptable for treatment, the SRAC will be required to pump any contaminated water within the tank pit and from decontamination to a process sewer inlet location identified and approved by Dunkirk Specialty Steel.

K. Remaining Kolene® has been discovered within the Brigham Road Plant. The SRAC will remove this remaining material and dispose of it in an appropriate manner.

IV.2 KOLENE® TANK DESCRIPTION

The Kolene® tank is a horizontal, rectangular tank constructed of an inner and outer shell of carbon steel separated by insulation (insulating structural brick on the bottom and mineral wool blankets on the sides). The outer shell of each tank is fabricated from 10 gauge carbon steel and the inner shell consists of 1-inch thick carbon steel. The tank is located in a concrete, below grade pits approximately 3.5 feet deep with approximately 4.5 feet of the tank rising above the main floor level. The tank bottom is supported by a series of I-beams that rest on the pit's concrete floor or concrete piers cast into the pit floor.

The Kolene® tank was noted to be completely full of solidified salt bath residuals. Residual Kolene® product was also observed to have been deposited on the surrounding concrete floor, residuals also appear to be located underneath the tank in the space between the tank bottom and the pit floor created by the piers and steel supports. Heavy residual waste deposition has also occurred on adjacent steel structures (grating, exterior framework, etc.) and piping associated with each tank as a result of spillage from the processing and transfer of steel products.

The Kolene® tank data has been summarized in Table 1. This information is believed to be an accurate representation of each tank's dimensions, capacities, weights and materials of construction based on historical

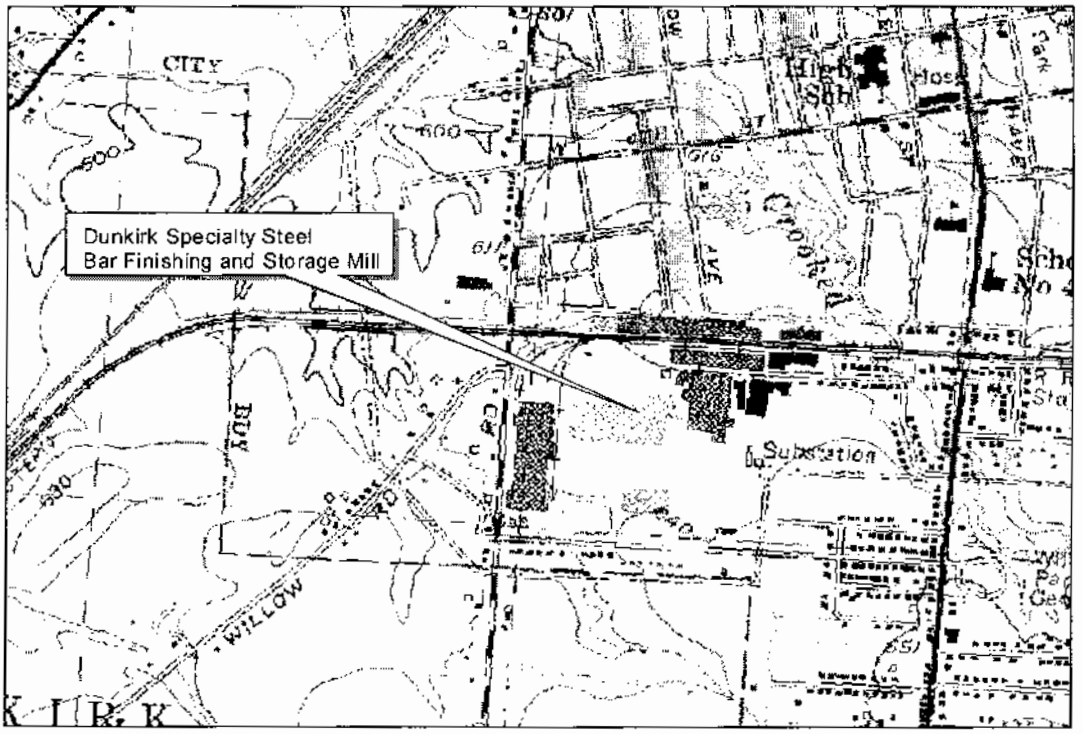
drawings obtained from ALTech files, field measurements and discussions with the Kolene® Corporation. It is reasonable to assume that due to the age of the systems and the conditions of the drawings, field alterations or retrofits may have been made to the tanks during their active service which may have altered this information.

Table 1
Kolene® Tank Data

Description	Data	Comments
Inner Steel Tank Description	36' L x 8' W x 5'4" H	from Kolene® & AL Tech drawings
Outer Steel Tank Description	37' 11"' L x 9'9"' W x 6'5" H	from Kolene® & AL Tech drawings
Est. Kolene® residue	172,032 lbs	112 lbs/ft^3
Insulation materials	Bottom - brick Sides - mineral wool	

Figure 1

ALTECH SPECIALTY STEEL SITE - SRAWA - Project Location



0.3 0 0.3 0.6 Miles

Major Road

N
W E
S

ALTech Specialty Steel
Site No. 907022
Dunkirk (C), Chautauqua County

Appendix 2

NOTICE TO PROCEED

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 9
270 Michigan Avenue, Buffalo, New York, 14203-2999
Phone: (716) 851-7220 • **FAX:** (716) 851-7226
Website: www.dec.state.ny.us

Erin M. Crotty
Commissioner

907022

September 23, 2002

Mr. Russell J. Savage
Nature's Way Environmental Consultants and Contractors Inc.
3553 Crittenden Road
Crittenden, NY 14038-0160

Dear Mr. Savage:

Standby Removal Action Work Assignment
Al Tech Specialty Steel Site, Site No. 907022
Dunkirk (C), Chautauqua County

This letter serves as a "Notice to Proceed" for Nature's Way involvement in the above-referenced project under the Standby Work Assignment Contract #D100110. The enclosed Project Work Plan provides the details for this program. At present, your firm's involvement will be limited to all the specified aspects of the attached Standby Removal Action Work Plan (SRAWA). Please schedule the authorized work involving your firm to begin by September 30, 2002.

Mr. Maurice Moore of our Region 9 Office is the Project Manager for the proposed work assignment at the project site and will serve as the primary NYSDEC contact for this SRAWA project. Mr. Kevin Glaser will be coordinating/supervising the field elements connected with this project with assistance from Mr. Moore. The Region 9 office will be issuing the necessary property owner notification. I would like you to make all the necessary arrangements for and to execute, "The Al Tech Specialty Steel Standby Removal Action Work Assignment" as directed by the enclosed SRAWA Project Work Plan. The work in essence includes:

- remove and properly dispose all D007 solidified waste Kolene® salts from existing tanks in the Dunkirk Specialty Steel Bar Finishing and Storage mill. This objective is to be attained with the least disruption to the active facility, in a cost effective manner, causing the least amount of waste handling;

- remove and dispose, by recycling as practical, all associated steel parts of the tank;

- decontaminate and clean remaining areas within a fifteen foot radius;
- remove and dispose remaining Kolene® from the Brigham Road Plant (BRP).

Which further includes but is not limited to:

- obtaining the services of a Kolene® representative prior to the removal work to inspect the work site and to determine if removing the majority of the remaining Kolene® by remelting is feasible. (If the Kolene® representative determines that the remelt is not feasible, the solidified salts will have to be removed by mechanical means as necessary)
- obtaining an up to date quote for the remelting of the Kolene®;
- assisting as required the Kolene® representative during the remelt and pumpout of the salts;
- obtain all necessary drums, pallets and drum handling and transportation equipment;
- remove by mechanical means as required any residual sludge remaining from the remelt and pumpout;
- decommission, clean and recycle all steel tanks and material as practical;
- clean and decontaminate as determined by the NYSDEC all surrounding areas of the Kolene® tank;
- properly manifest, arrange for transport and disposal all D007 waste;
- properly remove and dispose remaining Kolene® from within the Brigham Road Plant as required by the NYSDEC;
- properly dispose all non hazardous material;
- provide a short letter report detailing work, equipment required and expenditures, including, disposal receipts and manifests, copies of any photographs and work logs.

A preliminary "scoping" meeting will be required between the Department and you, and if necessary your chosen field supervisor to clarify any issues regarding the proposed work assignment prior to actual start of work.

Deliverables associated with this project will be expected in the form of a simple letter report and may/will include any deliverables as required in the work plan. Requests for Payment shall be submitted on a Contractor's Application for Payment (Unit Price Contract) Form 32-19-1 (2/82)(CAP) as required by Section G of the contract. An original CAP and three legible copies shall be submitted to this office for approval.

Please make arrangements with Mr. Maurice Moore to schedule a pre-work site visit. Questions related to the project itself or technical questions related to the Project Work Plan should be directed to Mr. Moore at (716) 851-7220.

Sincerely,

Peter J. Buechi
Regional Remediation Engineer
Region 9

Enclosure

cc: Mr. Martin Doster/Mr. Maurice Moore/file

Appendix 3

DISPOSAL MANIFESTS

NYG 3446442

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please type or print. Do not staple

(Hazardous Waste Manifest 1/3/89)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N Y R 0 0 0 0 0 8 6 6 0 3
Manifest Doc. No.: 30722
2. Page 1 of 1

Information within heavy bold line is not required by Federal Law.

3. Generator's Name and Mailing Address: NYS DEC SITE# 907022, 88 HOWARD STREET, DUNKIRK, NY 14048
4. Generator's Telephone Number: (716) 851-7220

A. NYG 3446442
B. Generator's ID: SAME

5. Transporter 1 (Company Name): FRANK'S VACUUM TRUCK SERVICE
6. US EPA ID Number: NYD982792814
C. State Transporter's ID: 4076306 NY
D. Transporter's Telephone: (716) 284-2132

7. Transporter 2 (Company Name):
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Telephone: ( )

9. Designated Facility Name and Site Address: CHEMTRON CORPORATION, 35850 SCHNEIDER COURT, AVON, OH 44011
10. US EPA ID Number: O H D 0 6 6 0 6 0 6 0 9
G. State Facility ID:
H. Facility Telephone: (440) 871-8048

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. "RQ" WASTE CORROSIVE SOLID, BASIC, INORGANIC, N.O.S., (SODIUM HYDROXIDE) 8, UN3262, PG II (D007)	56	DM	59200 ~~49200~~	EST. P	EPA D002,D007 STATE
b. V20030228A3-A					EPA STATE
c.					EPA STATE
d.					EPA STATE

J. Additional Descriptions for Materials listed Above: a. b. c. d.

K. Handling Codes for Wastes Listed Above: a. b. c. d.

15. Special Handling Instructions and Additional Information
11a. Q20030211A00 ERG# 154
24 HOUR EMERGENCY 716 244 7529 JIM W 1800 676 5091

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: TONY KAMINSKI — Signature: [signature] — Mo. 02 Day 27 Year 03

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: MARTIN T. CLARK — Signature: [signature] — Mo. 02 Day 27 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Mo. Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: KARL A. Guenther — Signature: Karl A. Guenther — Mo. 02 Day 28 Year 03

GENERATOR / TRANSPORTER / FACILITY

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

COPY 1—Disposer State—Mailed by TSD Facility

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

NYG 3370068

Please type or print. Do not staple

(Hazardous Waste Manifest 1/1999)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of	Information within heavy bold line is not required by Federal Law.
NY R000086603	22703	1	

3. Generator's Name and Mailing Address: NYS DEC SITE #907022, 60 HOWARD ST, DUNKIRK, NY 14048

4. Generator's Telephone Number: (716) 851 7220

5. Transporter 1 (Company Name): FRANKS VACUUM IRIK SERV

6. US EPA ID Number: NYD982192814

7. Transporter 2 (Company Name)

8. US EPA ID Number

9. Designated Facility, Name and Site Address: CHEMTRON CORP, 35850 SCHNEIDER COURT, AVON, OH 44011

10. US EPA ID Number: OHD066060609

A. NYG3370068

B. Generator's ID: SANG

C. State Transporter's ID: AC 24737 NY

D. Transporter's Telephone: (716) 244 2132

E. State Transporter's ID

F. Transporter's Telephone ( )

G. State Facility ID

H. Facility Telephone: (440) 871 8048

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ WASTE CORROSIVE SOLID, BASIC INORGANIC, NOS, (SODIUM HYDROXIDE) UN 3262, PG II (D002) V20030228A61-A	51	DM	35,700 32,000	P	EPA D002, D007 STATE
b.					EPA STATE
c.					EPA STATE
d.					EPA STATE

J. Additional Descriptions for Materials Listed Above

a. | c.

b. | d.

K. Handling Codes for Wastes Listed Above

a. | c.

b. | d.

15. Special Handling Instructions and Additional Information
11a Q20030211A00 ERG #154
24 HR EMERGENCY (716) 244 7529 JIM W 1800 676 5091

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Mo.	Day	Year
TONY KAMINSKI	Tony Kaminski	02	27	03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Year
PANIEL R BARRED	Daniel R Barred	02	27	03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Mo	Day	Year
KARL A. GUENTHER	Karl A Guenther	02	28	03

GENERATOR / TRANSPORTER / FACILITY

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

COPY 1—Disposer State—Mailed by TSD Facility

NYG 3446433

Please type or print. Do not staple

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

(Hazardous Waste Manifest (1/99))

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of	Information within heavy bold line is not required by Federal Law.
NYR 000086603	0622	1	

3. Generator's Name and Mailing Address: NYS DEC SITE# 907022
88 HOWARD STREET
DUNKIRK, NY 14048

4. Generator's Telephone Number: (585) 244-7529

A. NYG 3446433

B. Generator's ID: SANE

5. Transporter 1 (Company Name): FRANK'S VACUUM TRUCK SERVICE — 6. US EPA ID Number: NYD982792814

C. State Transporter's ID: AD76272 NY

D. Transporter's Telephone: (716) 284-2132

7. Transporter 2 (Company Name) — 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Telephone ( )

9. Designated Facility Name and Site Address: CHEMTRON CORPORATION
36850 SCHNEIDER COURT
AVON, OH 44011 — 10. US EPA ID Number: OHD066060609

G. State Facility ID

H. Facility Telephone: (440) 937-6348

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. "RQ" WASTE CORROSIVE SOLID, BASIC, INORGANIC, N.O.S., (SODIUM HYDROXIDE) 8, UN3262, PG II (D002)	57	DM	39800	P	EPA D002 STATE D007
b. V20030228A60-A					EPA STATE
c.					EPA STATE
d.					EPA STATE

GENERATOR

J. Additional Descriptions for Materials listed Above

a. — c.

b. — d.

K. Handling Codes for Wastes Listed Above

a. — c.

b. — d.

15. Special Handling Instructions and Additional Information

11a. Q20030211A00 ERG# 154

24 HOUR EMERGENCY NUMBER 585 244 7529

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Mo.	Day	Year
TONY KAMINSKI	Tony Kaminski	10	27	03

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Year
Leonard Moen	Leonard Moen	10	27	03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Mo.	Day	Year
Karl A. Guenther	Karl A Guenther	10	28	03

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

COPY 1—Disposer State—Mailed by TSD Facility

DEPARTMENT OF ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE

ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

Please print or type

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NYR000086603 — Manifest Document No. 3 — NYSDEC REGION 9(SITE 90722)

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
PREV: REALCO
DUNKIRK, NY 14048

4. Generator's Phone (716) - 851 - 7220

A. State Manifest Document Number MI 9028293

B. State Generator's ID Howard St Dunkirk NY

5. Transporter 1 Company Name: Buffalo Fuel Corp

6. US EPA ID Number: NYR000045724

C. State Transporter's ID AD25058 NY

D. Transporter's Phone 8006778023

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Perma-Fix of Michigan, Inc.
18550 Allen Road
Brownstown, MI 48192

10. US EPA ID Number: MID096963194

G. State Facility's ID

H. Facility's Phone 734 282-9250

	HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	RQ, Hazardous waste, solid, n.o.s. (HEXAVALENT CHROME,POTASSIUM HYDROXIDE) 9, NA3077, III	1	CM	31,800	P	D007
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
(a) REA60303 ALKALINESALTS/FIBERGLASS ERG# 171
(b)
(c)
(d)

K. Handling Codes for Wastes Listed Above
A.
B.
C.
D.

15. Special Handling Instructions and Additional Information
24 HR EMERGENCY# 800-424-9300 (CHEMTREC)

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; If I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: MAURICE F MOORE — Signature: [signature] — Date Month Day Year: 04 01 03

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Keith Corlson — Signature: [signature] — Date Month Day Year: 04 01 03

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: ~~MAURICE F. MOORE~~ M/M — Signature: [signature] — Date Month Day Year: 04 01 03

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [signature] — Signature: [signature] — Date Month Day Year: 04 01 03

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev.)

TSDF COPY

EQP 5130

Perma-Fix of Orlando, Inc. Perma-Fix of Michigan, Inc.
(734)282-9250 • Fax (734)282-1655
Toll Free: 1-800-282-9761

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

PERMA-FIX OF MICHIGAN, INC.

Form Approved. OMB No. 2050-0039

HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
NYR000086603	28294		

3. Generator's Name and Mailing Address: NYSDEC REGION 9(SITE 90722)
PREV: REALCO
DUNKIRK, NY 14048
4. Generator's Phone (716) - 851 - 7220

A. State Manifest Document Number: MI 9028292
B. State Generator's ID: Howard St. Dunkirk NY
C. State Transporter's ID: AC25906 NY
D. Transporter's Phone: 900-677-8002
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 734 282-9250

5. Transporter 1 Company Name: Buffalo Fuel Corp
6. US EPA ID Number: NYR000045724
7. Transporter 2 Company Name:
8. US EPA ID Number:
9. Designated Facility Name and Site Address: Perma-Fix of Michigan, Inc.
18550 Allen Road
Brownstown, MI 48192
10. US EPA ID Number: MID096963194

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER).	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a	X RQ, Hazardous waste, solid, n.o.s. (HEXAVALENT CHROME, POTASSIUM HYDROXIDE) 9, NA3077, III	1	CM	EST 32500	P	D007
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
(a) RRA60303 ALKALINESALTS/FIBERGLASS ERG# 171
(b)
(c)
(d)

K. Handling Codes for Wastes Listed Above
A.
B.
C.
D.

15. Special Handling Instructions and Additional Information
24 HR EMERGENCY# 800-424-9300 (CHEMTREC)

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Date (Month Day Year)
MAURICE F. MOORE	Maurice F Moore	09 09 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
MICHAEL GLEED	Michael Gleed	09 09 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
[illegible]	[illegible]	09 09 03

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE IN MICHIGAN AT 1-800-424-8802 24 HOURS PER DAY. CALL THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

FACILITY

EPA Form 8700-22 (Rev. 9/88) EQP 5110 Rev. 10/02

TSDF COPY

PERMA-FIX OF MICHIGAN, INC. DEPARTMENT OF ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NYR000086603 | Manifest Document No. 28291 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address NYSDEC REGION 9(SITE 90722)
PREV: REALCO
DUNKIRK, NY 14048

4. Generator's Phone (716) - 851 - 7220

A. State Manifest Document Number MI 9028291

B. State Generator's ID Howard St. Dunkirk NY

5. Transporter 1 Company Name BJ Hauling/Corp | 6. US EPA ID Number NYR000045724 | C. State Transporter's ID AD25058 NY | D. Transporter's Phone 800 677 [illegible]

7. Transporter 2 Company Name | 8. US EPA ID Number | E. State Transporter's ID | F. Transporter's Phone

9. Designated Facility Name and Site Address
Perma-Fix of Michigan, Inc.
18550 Allen Road
Brownstown, MI 48192 | 10. US EPA ID Number MID096963194 | G. State Facility's ID | H. Facility's Phone 734 282-9250

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, Hazardous waste, solid, n.o.s. (HEXAVALENT CHROME,POTASSIUM HYDROXIDE) 9, NA3077, III	X	1	CM	35,200 E54	P	D007
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
(a) REA60303 ALKALINESALTS/FIBERGLASS EXC# 171
(b)
(c)
(d)

K. Handling Codes for Wastes Listed Above
A.
B.
C.
D.

15. Special Handling Instructions and Additional Information
24 HR EMERGENCY# 800-424-9300 (CHEMTREC)

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; If I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name Kevin N. Glaser For Record purposes only | Signature | Date Month Day Year 03/31/03

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name [illegible] Carlson | Signature [illegible] | Date Month Day Year 03/31/03

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name [illegible] | Signature [illegible] | Date Month Day Year 03/31/03

GENERATOR TRANSPORTER FACILITY

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9-88) TSDF COPY EQP 5110 Rev 10/02

DEQ MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NYR000086603 | Manifest Document No. 28290 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: NYSDEC REGION 9(STTE 90722)
PREV: REALCO
DUNKIRK, NY 14048

A. State Manifest Document Number: MI 9028290

4. Generator's Phone: 716-851-7220

B. State Generator's ID: Howard ST. Dunkirk NY

5. Transporter 1 Company Name: Buffalo Fuel Corp | 6. US EPA ID Number: NYR000045724

C. State Transporter's ID: AC259716 NY

D. Transporter's Phone: 800-677-8002

7. Transporter 2 Company Name | 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Perma-Fix of Michigan, Inc.
18550 Allen Road
Brownstown, MI 48192

10. US EPA ID Number: MID096963194

G. State Facility's ID

H. Facility's Phone: 734 282-9250

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM		12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	RQ, Hazardous waste, solid, n.o.s. (HEXAVALENT CHROME, POTASSIUM HYDROXIDE) 9, NA3077, III	1	CM	EST 34900	P	D007
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
(a) RE460303 ALKALINESALTS/FIBERGLASS ERG# 171
(b)
(c)
(d)

K. Handling Codes for Wastes Listed Above
A.
B.
C.
D.

15. Special Handling Instructions and Additional Information
24 HR EMERGENCY# 800-424-9300 (CHEMTREC)

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Kevin N Glass for purposes only | Signature | Date: Month 09 Day 31 Year 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: MICHAEL GLEED | Signature: Michael Gleed | Date: Month 09 Day 31 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Cory McGlew | Signature | Date: Month 09 Day 31 Year 03

EPA Form 8700-22 (Rev. 6/88) TSDF COPY EQP-5110 (Rev. 10/02)

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS DAILY.

WASTE AND HAZARDOUS MATERIALS DIVISION
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

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Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NYR000008660	Manifest Document No. 2800	2. Page 1 of 6 / 1	Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
PREV: REALCO
DUNKIRK, NY 14048
NYSDEC REGION 9 (STTE 90722)
c/o 270 Michigan Ave
Buffalo NY 14203
4. Generator's Phone (716 - 851 - 7220

A. State Manifest Document Number: MI 8028026
B. State Generator's ID: Howard St. Dunkirk NY
C. State Transporter's ID: AC2548 by
D. Transporter's Phone: 800-677-3002
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 734 282-9250

5. Transporter 1 Company Name: Buffalo Fuel Corp.
6. US EPA ID Number: NYR000045724
7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
Perma-Fix of Michigan, Inc.
18550 Allen Road
Brownstown, MI 48192
10. US EPA ID Number: MID096963194

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	RQ, Hazardous waste, solid, n.o.s. (HEXAVALENT CHROME, POTASSIUM HYDROXIDE) 9, MA3077, III	1	CM	EST 12500	P	D007
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
(a) RE060302 STEEL CONTAMINATED W/HEX CHROME ERG 171
(b)
(c)
(d)

K. Handling Codes for Wastes Listed Above
A.
B.
C.
D.

15. Special Handling Instructions and Additional Information
24 HOUR CHEMTREC 800-424-9300

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Date (Month Day Year)
Kevin N Glaser		04 09 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
MICHAEL GLEED		04 09 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
C.D. Moore		04 09 03

GENERATOR

TRANSPORTER

FACILITY

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

IF YOUR CHEMTREC 800-424-9300 GENERATOR 2nd COPY

EQP 5110 Rev. 10/02

WASTE AND HAZARDOUS MATERIALS DIVISION
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

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Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NYR000086603 | Manifest Document No.: 28295 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: NYSDEC REGION 9(SITE 90722)
PREV: REALCO c/o 270 Michigan Ave
DUNKIRK, NY 14048 Buffalo NY 14203

4. Generator's Phone ( ) 716-851-7220

A. State Manifest Document Number: MI 9028295

B. State Generator's ID: Howard St. Dunkirk NY

5. Transporter 1 Company Name: Buffalo Fuel Corp
6. US EPA ID Number: NYR000054171-4

C. State Transporter's ID: AD50000

D. Transporter's Phone: 80047780?

7. Transporter 2 Company Name:
8. US EPA ID Number:

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address:
Perma-Fix of Michigan, Inc.
18550 Allen Road
Brownstown, MI 48192

10. US EPA ID Number: MID096963194

G. State Facility's ID

H. Facility's Phone: 734 282-9250

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, Hazardous waste, solid, n.o.s. (HEXAVALENT CHROME,POTASSIUM HYDROXIDE) 9, NA3077, III	X	1	CM	24100	P	D007
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
(a) REA60303 ALKALINESALTS/FIBERGLASS ERG# 171
(b)
(c)
(d)

K. Handling Codes for Wastes Listed Above
A.
B.
C.
D.

15. Special Handling Instructions and Additional Information
24 HR EMERGENCY# 800-424-9300 (CHEMTREC)

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Kevin N Glaser | Signature: [signature] | Date (Month Day Year): 04 09 03

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Keith Carlson | Signature: [signature] | Date (Month Day Year): 04 09 03

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: | Signature: | Date (Month Day Year):

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [handwritten name] | Signature: [signature] | Date (Month Day Year): 04 08 03

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9/88)

GENERATOR 2nd COPY

EQP 5110 Rev. 10/02

WASTE AND HAZARDOUS MATERIALS DIVISION
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

Please print or type

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
NYR000086603	28296		

GENERATOR

3. Generator's Name and Mailing Address: NYSDEC REGION 9(SITE 90722)
PREV: REALCO c/o 270 Michigan Ave
DUNKIRK, NY 14048 Buffalo NY 14203

4. Generator's Phone (716) - 851 - 7220

A. State Manifest Document Number: MI 9028296

B. State Generator's ID: Howard St Dunkirk NY

5. Transporter 1 Company Name: Buffalo Fuel Corp
6. US EPA ID Number: NYR000045724
C. State Transporter's ID: AC25976 NY
D. Transporter's Phone: 800-677-8602

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Perma-Fix of Michigan, Inc.
18550 Allen Road
Brownstown, MI 48192
10. US EPA ID Number: MID096963194
G. State Facility's ID
H. Facility's Phone: 734 282-9250

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, Hazardous waste, solid, n.o.s. (HEXAVALENT CHROME,POTASSIUM HYDROXIDE) 9, NA3077, III	X	1	CM	EST 20,500	P	D007
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
(a) RE460303 ALKALINESALTS/FIBERGLASS ERG# 171
(b)
(c)
(d)

K. Handling Codes for Wastes Listed Above
A.
B.
C.
D.

15. Special Handling Instructions and Additional Information
24 HR EMERGENCY# 800-424-9300 (CHEMTREC)

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Printed/Typed Name: Kevin N. Glaser
Signature:
Date: Month 04 Day 07 Year 03

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: MICHAEL GLEED
Signature:
Date: Month 04 Day 07 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Corey M Grider
Signature:
Date: Month 04 Day 07 Year 03

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

GENERATOR 2nd COPY

EQP 5110
Rev. 10/02

and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

... QUALITY

DO NOT WRITE IN THIS SPACE

ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NYR000086603
Manifest Document No.: 2
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

NYSDEC REGION 9(SITE 90722)

3. Generator's Name and Mailing Address
PREV: REALCO
DUNKIRK, NY 14048
c/o 270 Michigan Ave
Buffalo NY 14203

4. Generator's Phone (716-851-7220

A. State Manifest Document Number: MI 9028289

B. State Generator's ID: Howard St Dunkirk NY

5. Transporter 1 Company Name: Buffalo Fuel Corp
6. US EPA ID Number: NYR000045724

C. State Transporter's ID: AD 25058 NY

D. Transporter's Phone: 8006719003

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Perma-Fix of Michigan, Inc.
18550 Allen Road
Brownstown, MI 48192

10. US EPA ID Number: MID096963194

G. State Facility's ID

H. Facility's Phone: 734 282-9250

	HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	12. Containers No.	12. Containers Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.
a.	X	RQ, Hazardous waste, solid, n.o.s. (HEXAVALENT CHROME,POTASSIUM HYDROXIDE) 9, NA3077, III	1	CM	17,300	P	D007
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
(a) REA60303 ALKALINESALTS/FIBERGLASS ERG# 171
(b)
(c)
(d)

K. Handling Codes for Wastes Listed Above
A.
B.
C.
D.

15. Special Handling Instructions and Additional Information
24 HR EMERGENCY# 800-424-9300 (CHEMTREC)

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Kevin N. Glaser — Signature: [signature] — Date (Month Day Year): 10 17 03

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Keith Coller — Signature: [signature] — Date (Month Day Year): 10 17 03

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [signature] — Signature: [signature] — Date (Month Day Year): 10 20 03

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

EQP 5110 Rev. 10/02

GENERATOR 2nd COPY

DIVISION ... QUALITY

DO NOT WRITE IN THIS SPACE

ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NYR000086660
Manifest Document No.: 28027
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: NYSDEC REGION 9(SITE 90722)
PREV: REALCO
DUNKIRK, NY 14048
c/o 270 Michigan Ave Buffalo NY 14203

4. Generator's Phone ( ) 716-851-7220

A. State Manifest Document Number: MI 9028027

B. State Generator's ID: Hazard St Dunkirk NY

5. Transporter 1 Company Name: Buffalo Fuel Corp
6. US EPA ID Number: NYR000045724

C. State Transporter's ID: NY25058 NY

D. Transporter's Phone: 302 [illegible]

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address:
Perma-Fix of Michigan, Inc.
18550 Allen Road
Brownstown, MI 48192

10. US EPA ID Number: MID096963194

G. State Facility's ID

H. Facility's Phone: 734 282-9250

	HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	RQ, Hazardous waste, solid, n.o.s. (HEXAVALENT CHROME, POTASSIUM HYDROXIDE) 9, NA3077, III	1	CM	17600	P	D007
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
(a) REA60302 STEEL CONTAMINATED W/HEX CHROME ERG 171
(b)
(c)
(d)

K. Handling Codes for Wastes Listed Above
A.
B.
C.
D.

15. Special Handling Instructions and Additional Information
24 HOUR CHEMTREC 800-424-9300

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Kevin N Glaser
Signature: [signature]
Date (Month Day Year): 04 04 03

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Keith Carter
Signature: [signature]
Date (Month Day Year): 04 04 03

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [illegible]
Signature: [signature]
Date (Month Day Year): 04 04 03

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

GENERATOR 2nd COPY

EQP 5110 Rev. 10/02

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL.

DEQ

WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

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Form Approved. OMB No. 2050-0039

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NYR000086603
Manifest Document No. 91042
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: NYSDEC Region 9 (Site #90772) c/o 270 Michigan Ave Buffalo NY 14203
PREV: Realco
Dunkirk, New York 14048

4. Generator's Phone (716) 851-7220

A. State Manifest Document Number: MI 8691042

B. State Generator's ID: Howard St. Dunkirk NY

5. Transporter 1 Company Name: [illegible]
6. US EPA ID Number: [illegible]

C. State Transporter's ID: [illegible]
D. Transporter's Phone: [illegible]

7. Transporter 2 Company Name:
8. US EPA ID Number:

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address:
Perma-Fix of Michigan, Inc.
18550 Allen Road
Brownstown, Michigan 48192

10. US EPA ID Number: MID096963194

G. State Facility's ID

H. Facility's Phone: (734) 282-9250

HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. X	(RQ), Hazardous Waste Solid, N.O.S. (Hexavalent Chrome, Potassium Hydroxide) 9, NA3077, PG III	1	CM	11,[illegible]	P	D007
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
A) REA60302 Steel contaminated w/Hex chrome ERG# 171

K. Handling Codes
a
b
c
d

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Chemtrec (800) 424-9300

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Kevin N Glaser
Signature: [signature]
Date (Month Day Year): 04 [illegible] 03

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: [illegible]
Signature: [signature]
Date (Month Day Year): [illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date (Month Day Year):

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Cora M Graver
Signature: [signature]
Date (Month Day Year): 041303

WASTE AND HAZARDOUS MATERIALS DIVISION
MICHIGAN DEPARTMENT
ENVIRONMENTAL QUALITY

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and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NYR000086603
Manifest Document No.: 28294
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: NYSDEC REGION 9(SITE 90722)
PREV: REALCO
DUNKIRK, NY 14048
% 270 Michigan Ave
Buffalo, NY 14203
4. Generator's Phone (716) 851-7220

A. State Manifest Document Number: MI 9028294
B. State Generator's ID: Howard F. Dunkirk NY

5. Transporter 1 Company Name: Buffalo Fuel Corp
6. US EPA ID Number: NYR000045724
C. State Transporter's ID: ACZ5766NY
D. Transporter's Phone: 800 677-8012

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Perma-Fix of Michigan, Inc.
18550 Allen Road
Brownstown, MI 48192
10. US EPA ID Number: MID096963194
G. State Facility's ID:
H. Facility's Phone: 734 282-9250

	HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	RQ, Hazardous waste, solid, n.o.s. (HEXAVALENT CHROME,POTASSIUM HYDROXIDE) 9, NA3077, III	1	CM	EST 3000	P	D007
b.							
c.							
d.							

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J. Additional Descriptions for Materials Listed Above
(a) REA60303 ALKALINESALTS/FIBERGLASS ERG# 171
(b)
(c)
(d)

K. Handling Codes for Wastes Listed Above
A.
B.
C.
D.

15. Special Handling Instructions and Additional Information
24 HR EMERGENCY# 800-424-9300 (CHEMTREC)

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Kevin N Glaser
Signature: [signature]
Date (Month Day Year): 04 02 03

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Michael Gleed
Signature: [signature]
Date (Month Day Year): 04 02 03

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date (Month Day Year):

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Date (Month Day Year): 04 02 03

GENERATOR / TRANSPORTER / FACILITY

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)
EQP 5124
Rev. 10/02

GENERATOR 2nd COPY

WASTE AND HAZARDOUS MATERIALS DIVISION
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DEQ

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ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NYR000086603
Manifest Document No.: 2829
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: NYSDEC REGION 9(SITE 90722)
PREV: REALCO
DUNKIRK, NY 14048
c/o 270 Michigan Ave Buffalo NY 14203

4. Generator's Phone (716-851-7220

A. State Manifest Document Number: MI 9028297

B. State Generator's ID: Howard St. Dunkirk NY

5. Transporter 1 Company Name: Buffalo Fuel Corp
6. US EPA ID Number: NYR000044024

C. State Transporter's ID: AD25058NY
D. Transporter's Phone: 800 472...

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address:
Perma-Fix of Michigan, Inc.
18550 Allen Road
Brownstown, MI 48192

10. US EPA ID Number: MID096963194

G. State Facility's ID
H. Facility's Phone: 734 282-9250

	HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	RQ, Hazardous waste, solid, n.o.s. (HEXAVALENT CHROME,POTASSIUM HYDROXIDE) 9, NA3077, III	1	CM	27600	P	D007
b.							
c.							
d.							

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J. Additional Descriptions for Materials Listed Above
(a) RKA60303 ALKALINESALTS/FIBERGLASS ERG# 171
(b)
(c)
(d)

K. Handling Codes for Wastes Listed Above
A.
B.
C.
D.

15. Special Handling Instructions and Additional Information
24 HR EMERGENCY# 800-424-9300(CHEMTREC)

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Kevin Glaser for manifest purposes only
Signature: [signature]
Date (Month Day Year): 02 19 03

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Keith Carlson
Signature: [signature]
Date (Month Day Year):

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Date (Month Day Year):

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

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EQP 5110 Rev. 10/02

Appendix 4

CONTRACTOR'S APPLICATION FOR PAYMENT (S) (CAP) TRANSMITTAL MEMORANDA

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
CONTRACTOR'S APPLICATION (CAP) FOR PAYMENT TRANSMITTAL MEMORANDUM

TO: Dottie Norvik, Cost Recovery/Grants/Payments Section, DER, 12th Floor, 7012
FROM: Maurice Moore, Region 9 Phone: (716)851-7220 Region: 9
SUBJECT: Payment Request

DATE. February 24, 2003

DEC Received Date: 2/24/2003 (Must also be written or stamped on upper right hand corner of Cap)

- INVOICE AMOUNT: $ $55,917.27 ($54,506.93, See Below)
- INVOICE NO. 02-237-01 (CAP#1)
- COST CENTER #: 674168-99
- WORK ENDING PERIOD: 1/24/2003
- SITE NAME: Al Tech Specialty Steel Site • SITE #: 907022
- TOWN AND COUNTY: Dunkirk(C), Chautauqua County
- CONTRACTOR: Nature's Way Environmental Consulting and Contractors, Inc.

I have received the payment request for technical eligibility and recommend:

_____ Payment of the amount requested based on technical review.

__X__ Partial payment, see below for the description of the areas for which payment is to be withheld.

Item No./Description	Amount Requested	Amount Approved	Reason (Please Specify)
Inv. 00057849 (Ferry)	$174.41	$163.00 ($11.41)	Additional Tax (Not invoiced by supplier)
Inv. 1074969 (Erb Co.)	$40.81	$38.14 ($2.67)	(Ibid.)
Inv. 104-388787-4 (Grainger)	$141.65	$132.38 ($9.27)	(Ibid.)
Inv. 24351 (Burnwell Gas Corp.)	$47.88	$44.34 ($3.54)	(Ibid.)
Inv. 104-564773-0 (Grainger)	$75.46	$70.52 ($4.92)	(Ibid.)
Inv. 104-564772-2 (Grainger)	$144.06	$134.64 ($9.42)	(Ibid.)

Inv. 0012069 (Kolene)	$16,303.57	$15,095.90 ($1,207.67)	(Ibid.)
Inv. 038375 (Thruway Builders)	$122.74	$113.65 ($9.09)	(Ibid.)
Inv. 0012115-IN (Kolene)	$326.00	$301.86 ($24.14)	(Ibid.)

Total reduction to CAP#1 = $1282.13 + $128.21(10% Contractors markup) = $1410.34

Reduce total CAP from $55,917.27 - $1410.34 = $54,506.93

Amount Approved this CAP #1 **$54,506.93**

NOTE: An explanation is required if the technical review period exceeds 5 days.

EXPLANATION:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
CONTRACTOR'S APPLICATION (CAP) FOR PAYMENT TRANSMITTAL MEMORANDUM

TO: Dottie Norvik, Cost Recovery/Grants/Payments Section, DER, 12th Floor, 7012
FROM: Maurice Moore, Region 9 Phone: (716)851-7220 Region: 9
SUBJECT: Payment Request

DATE. April 9, 2003

DEC Received Date: 3/31/2003 (Must also be written or stamped on upper right hand corner of Cap)

- INVOICE AMOUNT: $ $109,159.09
- INVOICE NO. 02-237-02 (CAP#2)
- COST CENTER #: 674168-99
- WORK ENDING PERIOD: 3/20/2003
- SITE NAME: Al Tech Specialty Steel Site • SITE #: 907022
- TOWN AND COUNTY: Dunkirk(C), Chautauqua County
- CONTRACTOR: Nature's Way Environmental Consulting and Contractors, Inc.

I have received the payment request for technical eligibility and recommend:

X Payment of the amount requested based on technical review.

_____ Partial payment, see below for the description of the areas for which payment is to be withheld.

Item No./Description	Amount Requested	Amount Approved	Reason (Please Specify)

NOTE: An explanation is required if the technical review period exceeds 5 days.

EXPLANATION:

Detail of CAP was extensive requiring a greater lenght of review time by engineer and inspector.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
CONTRACTOR'S APPLICATION (CAP) FOR PAYMENT TRANSMITTAL MEMORANDUM

TO: Dottie Norvik, Cost Recovery/Grants/Payments Section, DER, 12th Floor, 7012
FROM: Maurice Moore, Region 9 Phone: (716)851-7220 Region: 9
SUBJECT: Payment Request

DATE. May 12, 2003

DEC Received Date: 5/05/2003 (Must also be written or stamped on upper right hand corner of Cap)

- INVOICE AMOUNT: $6732.84
- INVOICE NO. 02-237-03 (CAP#3)
- COST CENTER #: 674168-99
- WORK ENDING PERIOD: 3/31/2003
- SITE NAME: Al Tech Specialty Steel Site • SITE #: 907022
- TOWN AND COUNTY: Dunkirk(C), Chautauqua County
- CONTRACTOR: Nature's Way Environmental Consulting and Contractors, Inc.

I have received the payment request for technical eligibility and recommend:

X Payment of the amount requested based on technical review.

_____ Partial payment, see below for the description of the areas for which payment is to be withheld.

Item No./Description	Amount Requested	Amount Approved	Reason (Please Specify)

NOTE: An explanation is required if the technical review period exceeds 5 days.

EXPLANATION:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
CONTRACTOR'S APPLICATION (CAP) FOR PAYMENT TRANSMITTAL MEMORANDUM

TO: Dottie Norvik, Cost Recovery/Grants/Payments Section, DER, 12th Floor, 7012
FROM: Maurice Moore, Region 9 Phone: (716)851-7220 Region: 9
SUBJECT: Payment Request

DATE. May 12, 2003

DEC Received Date: 5/09/2003 (Must also be written or stamped on upper right hand corner of Cap)

- INVOICE AMOUNT: $41,780.09
- INVOICE NO. 02-237-04 (CAP#4)
- COST CENTER #: 674168-99
- WORK ENDING PERIOD: 4/07/2003
- SITE NAME: Al Tech Specialty Steel Site • SITE #: 907022
- TOWN AND COUNTY: Dunkirk(C), Chautauqua County
- CONTRACTOR: Nature's Way Environmental Consulting and Contractors, Inc.

I have received the payment request for technical eligibility and recommend:

X Payment of the amount requested based on technical review.

_____ Partial payment, see below for the description of the areas for which payment is to be withheld.

Item No./Description	Amount Requested	Amount Approved	Reason (Please Specify)

NOTE: An explanation is required if the technical review period exceeds 5 days.

EXPLANATION:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
CONTRACTOR'S APPLICATION (CAP) FOR PAYMENT TRANSMITTAL MEMORANDUM

TO: Dottie Norvik, Cost Recovery/Grants/Payments Section, DER, 12th Floor, 7012
FROM: Maurice Moore, Region 9 Phone: (716)851-7220 Region: 9
SUBJECT: Payment Request

DATE. June 19, 2003

DEC Received Date: 6/18/2003 (Must also be written or stamped on upper right hand corner of Cap)

- INVOICE AMOUNT: $17956.62
- INVOICE NO. 02-237-05 (CAP#5)
- COST CENTER #: 674168-99
- WORK ENDING PERIOD: 4/07/2003
- SITE NAME: Al Tech Specialty Steel Site • SITE #: 907022
- TOWN AND COUNTY: Dunkirk(C), Chautauqua County
- CONTRACTOR: Nature's Way Environmental Consulting and Contractors, Inc.

I have received the payment request for technical eligibility and recommend:

X Payment of the amount requested based on technical review.

_____ Partial payment, see below for the description of the areas for which payment is to be withheld.

Item No./Description	Amount Requested	Amount Approved	Reason (Please Specify)

NOTE: An explanation is required if the technical review period exceeds 5 days.

EXPLANATION:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
CONTRACTOR'S APPLICATION (CAP) FOR PAYMENT TRANSMITTAL MEMORANDUM

TO: Dottie Norvik, Cost Recovery/Grants/Payments Section, DER, 12th Floor, 7012
FROM: Maurice Moore, Region 9 Phone: (716)851-7220 Region: 9
SUBJECT: Payment Request

DATE. July 24, 2003

DEC Received Date: 7/23/2003 (Must also be written or stamped on upper right hand corner of Cap)

- INVOICE AMOUNT: $1948.66
- INVOICE NO. 02-237-05 (CAP#6)
- COST CENTER #: 674168-99
- WORK ENDING PERIOD: 4/01/2003
- SITE NAME: Al Tech Specialty Steel Site • SITE #: 907022
- TOWN AND COUNTY: Dunkirk(C), Chautauqua County
- CONTRACTOR: Nature's Way Environmental Consulting and Contractors, Inc.

I have received the payment request for technical eligibility and recommend:

X Payment of the amount requested based on technical review.

_____ Partial payment, see below for the description of the areas for which payment is to be withheld.

Item No./Description	Amount Requested	Amount Approved	Reason (Please Specify)

NOTE: An explanation is required if the technical review period exceeds 5 days.

EXPLANATION:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
CONTRACTOR'S APPLICATION (CAP) FOR PAYMENT TRANSMITTAL MEMORANDUM

TO: Dottie Norvik, Cost Recovery/Grants/Payments Section, DER, 12th Floor, 7012
FROM: Maurice Moore, Region 9 Phone: (716)851-7220 Region: 9
SUBJECT: Payment Request

DATE. February 18, 2003

DEC Received Date: 2/18/2003 (Must also be written or stamped on upper right hand corner of Cap)

- INVOICE AMOUNT: $ $180.82
- INVOICE NO. 0301087-2344
- COST CENTER #: 674168-99
- WORK ENDING PERIOD: 1/22/2003
- SITE NAME: Al Tech Specialty Steel Site • SITE #: 907022
- TOWN AND COUNTY: Dunkirk(C), Chautauqua County
- CONTRACTOR: Life Science Laboratories

I have received the payment request for technical eligibility and recommend:

X Payment of the amount requested based on technical review.

_____ Partial payment, see below for the description of the areas for which payment is to be withheld.

Item No./Description	Amount Requested	Amount Approved	Reason (Please Specify)

NOTE: An explanation is required if the technical review period exceeds 5 days.

EXPLANATION:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
CONTRACTOR'S APPLICATION (CAP) FOR PAYMENT TRANSMITTAL MEMORANDUM

TO: Faith Vickerson, Cost Recovery/Grants/Payments Section, DER, 12th Floor, 7012
FROM: Maurice Moore, Region 9 Phone: (716)851-7220 Region: 9
SUBJECT: Payment Request

DATE. February 26, 2003

DEC Received Date: 2/24/2003 (Must also be written or stamped on upper right hand corner of Cap)

- INVOICE AMOUNT: $ $108.18
- INVOICE NO. 0301935-2344
- COST CENTER #: 674168-99
- WORK ENDING PERIOD: 2/17/2003
- SITE NAME: Al Tech Specialty Steel Site • SITE #: 907022
- TOWN AND COUNTY: Dunkirk(C), Chautauqua County
- CONTRACTOR: Life Science Laboratories

I have received the payment request for technical eligibility and recommend:

X Payment of the amount requested based on technical review.

_____ Partial payment, see below for the description of the areas for which payment is to be withheld.

Item No./Description	Amount Requested	Amount Approved	Reason (Please Specify)

NOTE: An explanation is required if the technical review period exceeds 5 days.

EXPLANATION:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
CONTRACTOR'S APPLICATION (CAP) FOR PAYMENT TRANSMITTAL MEMORANDUM

TO: Faith Vickerson, Cost Recovery/Grants/Payments Section, DER, 12th Floor, 7012
FROM: Maurice Moore, Region 9 Phone: (716)851-7220 Region: 9
SUBJECT: Payment Request

DATE. February 26, 2003

DEC Received Date: 2/24/2003 (Must also be written or stamped on upper right hand corner of Cap)

- INVOICE AMOUNT: $ $86.11
- INVOICE NO. 0301788-2344
- COST CENTER #: 674168-99
- WORK ENDING PERIOD: 2/17/2003
- SITE NAME: Al Tech Specialty Steel Site • SITE #: 907022
- TOWN AND COUNTY: Dunkirk(C), Chautauqua County
- CONTRACTOR: Life Science Laboratories

I have received the payment request for technical eligibility and recommend:

X Payment of the amount requested based on technical review.

_____ Partial payment, see below for the description of the areas for which payment is to be withheld.

Item No./Description	Amount Requested	Amount Approved	Reason (Please Specify)

NOTE: An explanation is required if the technical review period exceeds 5 days.

EXPLANATION:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
CONTRACTOR'S APPLICATION (CAP) FOR PAYMENT TRANSMITTAL MEMORANDUM

TO: Dottie Norvik, Cost Recovery/Grants/Payments Section, DER, 12th Floor, 7012
FROM: Maurice Moore, Region 9 Phone: (716)851-7220 Region: 9
SUBJECT: Payment Request

DATE. April 4, 2003

DEC Received Date: 2/24/2003 (Must also be written or stamped on upper right hand corner of Cap)

- INVOICE AMOUNT: $ $180.13
- INVOICE NO. 0303391-2344
- COST CENTER #: 674168-99
- WORK ENDING PERIOD: 3/26/2003
- SITE NAME: Al Tech Specialty Steel Site • SITE #: 907022
- TOWN AND COUNTY: Dunkirk(C), Chautauqua County
- CONTRACTOR: Life Science Laboratories

I have received the payment request for technical eligibility and recommend:

X Payment of the amount requested based on technical review.

_____ Partial payment, see below for the description of the areas for which payment is to be withheld.

Item No./Description	Amount Requested	Amount Approved	Reason (Please Specify)

NOTE: An explanation is required if the technical review period exceeds 5 days.

EXPLANATION:

Appendix 5

SAMPLE RESULTS

- - LABORATORY ANALYSIS REPORT - -

New York State DEC - Region 9 Buffalo, NY

Sample ID: Pickle Tank Contents - Comp. **LSL Sample ID:** 0301087-001

Location: Altech Steel - Dunkirk

Sampled: 01/21/03 9:30 **Sampled By:** TK

Sample Matrix: SHW as Recd

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ASTM D3987-85 Water Extraction of Waste					
Water Extraction				1/27/03	PEF
(1) EPA 6010 Total Metals					
Arsenic	<100	mg/kg	1/27/03	1/28/03	PEF
Barium	<3000	mg/kg	1/27/03	1/28/03	PEF
Cadmium	<100	mg/kg	1/27/03	1/28/03	PEF
Chromium	50000	mg/kg	1/27/03	1/28/03	PEF
Lead	<100	mg/kg	1/27/03	1/28/03	PEF
Selenium	<100	mg/kg	1/27/03	1/28/03	PEF
Elevated detection limits due to matrix interference.					
Silver	<100	mg/kg	1/27/03	1/28/03	PEF
(1) EPA 7471 Mercury					
Mercury	<0.3	mg/kg	1/27/03	1/28/03	PEF
Elevated detection limit due to matrix interference.					
(1) Water Extractable Hex. Chrome,SM18 3500C					
Chromium, Hexavalent	42000	mg/kg		1/28/03	DWK

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- LABORATORY ANALYSIS REPORT --

New York State DEC - Region 9 *Buffalo, NY*

Sample ID:	**Pickle Tank Contents - Comp.**	**LSL Sample ID:**	**0301935-001**
Location:	Altech Steel - Dunkirk		
Sampled:	01/21/03 21:30 **Sampled By:** TK		
Sample Matrix:	SHW as Recd		

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 1311 TCLP Extraction					
TCLP Non-Volatile Extraction				2/10/03	PEF
(1) EPA 6010 TCLP Metals					
Arsenic	<1	mg/l	2/10/03	2/11/03	PEF
Barium	<5	mg/l	2/10/03	2/11/03	PEF
Cadmium	<1	mg/l	2/10/03	2/11/03	PEF
Elevated detection limit due to matrix interference.					
Chromium	2500	mg/l	2/10/03	2/11/03	PEF
Lead	<1	mg/l	2/10/03	2/11/03	PEF
Elevated detection limit due to matrix interference.					
Selenium	<1	mg/l	2/10/03	2/11/03	PEF
Elevated detection limit due to matrix interference.					
Silver	<1	mg/l	2/10/03	2/11/03	PEF
(1) EPA 7471 TCLP Mercury					
Mercury	<0.006	mg/l	2/12/03	2/12/03	PEF
Elevated detection limit due to matrix interference.					

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- LABORATORY ANALYSIS REPORT --

New York State DEC - Region 9 Buffalo, NY

Sample ID: Dc-Con Water **LSL Sample ID:** 0301788-001

Location: Former Altech Steel - Dunkirk

Sampled: 02/03/03 21:00 **Sampled By:** TK

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Total Metals					
Arsenic	<1	mg/l	2/12/03	2/13/03	PEF
Elevated detection limit due to matrix interference.					
Barium	<20	mg/l	2/12/03	2/13/03	PEF
Elevated detection limit due to matrix interference.					
Cadmium	<1	mg/l	2/12/03	2/13/03	PEF
Elevated detection limit due to matrix interference.					
Chromium	570	mg/l	2/12/03	2/13/03	PEF
Lead	<1	mg/l	2/12/03	2/13/03	PEF
Elevated detection limit due to matrix interference.					
Selenium	<1	mg/l	2/12/03	2/13/03	PEF
Elevated detection limit due to matrix interference.					
Silver	<1	mg/l	2/12/03	2/13/03	PEF
Elevated detection limit due to matrix interference.					
(1) EPA 245.1Total Mercury					
Mercury	<0.001	mg/l	2/12/03	2/12/03	PEF
Elevated detection limit due to matrix interference.					
(1) SM 18 3500Cr-D Hexavalent Chromium					
Chromium, Hexavalent	480	mg/l		2/14/03 15:36	DWK
This sample was received beyond the holding time limit. As per client request analysis was performed.					

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- LABORATORY ANALYSIS REPORT --

New York State DEC - Region 9 Buffalo, NY

Sample ID: Quench Tank Sludge - Comp. **LSL Sample ID:** 0303391-001

Location: Former Altech Steel - Dunkirk

Sampled: 03/11/03 0:00 **Sampled By:** TK

Sample Matrix: SHW as Recd

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 6010 TCLP Metals					
Selenium	<0.5	mg/l	3/24/03	3/25/03	PEF
(1) EPA 6010 Total Metals					
Arsenic	<1	mg/kg	3/17/03	3/19/03	PEF
Barium	<1	mg/kg	3/17/03	3/19/03	PEF
Cadmium	<100	mg/kg	3/17/03	3/20/03	PEF
Elevated detection limit due to matrix interference.					
Chromium	12000	mg/kg	3/17/03	3/20/03	PEF
Lead	<100	mg/kg	3/17/03	3/20/03	PEF
Elevated detection limit due to matrix interference.					
Selenium	<1	mg/kg	3/17/03	3/19/03	PEF
Silver	<100	mg/kg	3/17/03	3/20/03	PEF
Elevated detection limit due to matrix interference.					
(1) EPA 7471 Mercury					
Mercury	<0.02	mg/kg	3/17/03	3/17/03	PEF
(1) ITEM #SS-23- , EPA 6010 TCLP Metals					
Arsenic	<1	mg/l	3/24/03	3/25/03	PEF
(1) ITEM #SS-24- , EPA 6010 TCLP Metals					
Barium	<5	mg/l	3/24/03	3/25/03	PEF
(1) ITEM #SS-25- , EPA 6010 TCLP Metals					
Cadmium	<0.5	mg/l	3/24/03	3/25/03	PEF
(1) ITEM #SS-27- , EPA 6010 TCLP Metals					
Chromium	12	mg/l	3/24/03	3/25/03	PEF
(1) ITEM #SS-31- , EPA 6010 TCLP Metals					
Lead	<1	mg/l	3/24/03	3/25/03	PEF
(1) ITEM #SS-34- , EPA 7471 TCLP Mercury					
Mercury	<0.002	mg/l	3/25/03	3/25/03	PEF
(1) ITEM #SS-37- , EPA 6010 TCLP Metals					
Silver	<1	mg/l	3/24/03	3/25/03	PEF
(1) ITEM #TC-02- , EPA 1311 TCLP					
TCLP Non-Volatile Extraction				3/21/03	PEF

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

Appendix 6

FIELD NOTES

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	January 10, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: Heavy snows

Description of Work Performed:

* 4 people from Nature's Way (NW) onsite.

* Equipment onsite: Pick-up Truck
  Van
  Dump Truck w/ trailer
  Skid Steer

* Did preliminary cleaning of salts off the top of the Kolene tank. Typical protective equipment for this work is hard hat, safety shoes, safety glasses, tyvex, and respirator with particulate filters.

Problems/Observations Noted:

* the pickling room was filled with acid vapors when we arrived. Dunkirk Specialty Steel maintenance person fixed the problem with scrubber blowers and the vapors dissipated.

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	January 13, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: Overcast, windy, drifting snow

Description of Work Performed:

* 1 NW person onsite at 11:45

* 2 NW persons onsite @ 14:10

* G. Weber, NW onsite @ 15:30 with more H&S equipment.

* NW beginning to band together sets of 4 drums on pallets. The pallet has a 10 gauge steel plate covering the pallet.

* All the drums and steel plates onsite...only half the needed pallets onsite.

* 16:00 hrs. M. Moore onsite.

* 17:30 R. Kitchen and Steve Miller of Kolene Corp. onsite.

* Kolene Corp. checked out electric, discussed pumping point locations.

* 17:55 M. Moore and 2 Kolene persons offsite.

* 18:05 G. Weber offsite.

* 3 NW persons cleaning the deposited salts away from the burner assemblies on the top of the Kolene tank.

* Removing as much of the accumulated salts from around the outside of the tank as possible tonight.

* 19:55 all NW and the writer offsite. Start up time is 8 am tomorrow.

Problems/Observations Noted:

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	January 14, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: Overcast

Description of Work Performed:

* 08:00 2 Kolene Corp persons and 3 NW persons onsite.

* Checking the ventilation blowers. These need to be operational before igniting the burners. There is one blower for each of 4 groups of 7 burners.

* 09:00 begin lighting burners. #1-3 lit.

* 10:15 M. Moore onsite.

* 10:45 26 of 28 burners lit. The other 2 burner tubes are blocked.

* 11:15 G. Weber offsite.

* NW to bring a forklift onsite tomorrow to help assemble the drum/pallet units.

* 15:30 K. Glaser offsite.

* Kolene Corp and NW are monitoring the heating of the kolene salt bath 24hrs a day.

Problems/Observations Noted:

* 26 of 28 burners working, this is more than adequate and more than anticipated.

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	January 15, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: Snow, 18 degrees Several local schools closed

Description of Work Performed:

* At 06:30hrs all 26 burners went off due to an electric problem. A small transformer in the control panel is not functioning. S. Miller of Kolene Corp. was able to by pass the faulty transformer and the burners were reignited by 07:30.

* 08:30 the tank temperature is 730 degrees F.

* NW is assembling drum/pallet units.

* 10:00 another electrical interruption turned off the burners. Kolene reignited.

* 10:00 a third Kolene Corp. person onsite to assist in the 24 hour a day monitoring.

* Presently 2 Kolene persons and 1 NW person onsite.

* 11:00 M. Moore and M. Doster onsite.

* 15:00 kolene tank liquid at 760 degrees F.

* Kolene Corp anticipates taking the tank temperature up to 950 degrees F and holding at this temperature until Friday, 1/17/03, afternoon when the pumping is to begin.

* 15:15 K. Glaser offsite.

Problems/Observations Noted:

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	January 16, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: 15 degrees, flurries

Description of Work Performed:

* Another electric interruption turned off the burners, Kolene reignited.

* 08:00 K. Glaser onsite.

* 08:00 tank temperature is now 942 degrees F.

* 75% of drum/pallet units are assembled.

* 12:00 tank temperature is now 955 degrees F.

* 16:00 hrs all drum/pallet units assembled.

* 16:30 Tony of NW onsite with 6 wheel truck and lift assembly for the pneumatic pump.

* 17:00 NW and Kolene Corp. are using the forklift to lift and remove the 2 sludge pans for the east side of the kolene tank. The pans were lifted just above the top of the tank and allowed to cool to a temperature where the kolene sludge was firmer and less likely to spill or splatter. The pans were then pulled back and set on the concrete floor.

* 17:40 Dan and Tony of NW offsite.

* 18:15 K. Glaser offsite.

Problems/Observations Noted:

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	January 17, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: 8 degrees, cold, windy, snow

Description of Work Performed:

* 12:20 K. Glaser onsite.

* Dan of NW plumbing the inline air oiler for the pneumatic pump. Installed the valve for the pump to regulate the filling of the drums. The valve is up on the catwalk by the burners so R. Kitchen of Kolene will have a good view of the filling drums.

* The discharge piping is 2 - 10' pieces of 2" black steel piping with 2 - 90 degree elbows that will allow the end to be lifted and moved from drum to drum. A 6' piece of 3/4" piping is bolted to the discharge end of the 2" piping in a "T" fashion to be used as handles by the 2 NW persons filling the drums.

* 14:00 3 additional NW people onsite.

* DSS is assisting by removing the 2 covers of the kolene tank using the overhead crane. These covers were placed in the kolene quench tank next to the kolene tank.

* 14:30 NW and Kolene Corp (R. Kitchen) are discussing safety assignments and responsibilities.

* All persons working in or around the liquid kolene are donning their aluminized kevlar suits.

* All burners turned off.

* 15:30 Begin pumping kolene into drums.

* NW crew is cutting up the gas lines and electric connections to the kolene tank burners. Removing the portions of the burner assemblies above the tank.

* 16:30 40 drums full and staged to the west in the pickle room.

* 17:30 80 drums full.

* Some green kolene salts are spilling on the sides of the drums and flaking off as they are moved to be staged.

* 19:35 156 drums full

* NW working to open a path through a ridge of sludge in the middle of the tank preventing the flow of some salts from the north end to the south end.

* 2 NW workers beginning to remove the heating tubes from the tank using the forklift.

* Moved the pump to the east side of the tank to the sludge pan area that does not have a port to allow the flow of kolene to the main tank. Pumping into drums.

* Moved pump back to the south end of the tank. After moving a sludge pan in the south end of the tank, they were able to remove more liquid from this end.

* Total - 160 drums of salts.

* Set up a drum with water to use to flush the kolene pump. Recirulated water through the pump to clean it.

* 21:00 R. Kitchen of Kolene Corp. offsite.

Problems/Observations Noted: **Work completed:** Continued

* 21:55 last of the burner tubes removed from the tank.

* 22:45 all NW and DEC persons offsite.

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	January 18, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk,
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: 10 degrees, Prtly sunny

Description of Work Performed:

* 08:40 NW has 3 people onsite.

* Moving the drums filled last night to an unheated storage area in another building.

* NW has 2 forklifts onsite. The first forklift (small wheels) moves the drums to the exterior door the second forklift transports them to the storage area.

* Placing lids on the drums, but not securing them. With the band around the drums there isn't room to put the rings around the lids.

* Drums are still warm/hot to the touch. I can place my hand on the side of the drums, but can't leave it there for long.

* NW cleaned up the green flakes of kolene that fell off of the drums.

* 12:15 NW and K. Glaser offsite.

Problems/Observations Noted: .

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	January 20, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: 10 degrees, Prtly sunny

Description of Work Performed:

* 08:40 NW has 3 people onsite.

* Moving the drums filled last night to an unheated storage area in another building.

* NW has 2 forklifts onsite. The first forklift (small wheels) moves the drums to the exterior door the second forklift transports them to the storage area.

* Placing lids on the drums, but not securing them. With the band around the drums there isn't room to put the rings around the lids.

* Drums are still warm/hot to the touch. I can place my hand on the side of the drums, but can't leave it there for long.

* NW cleaned up the green flakes of kolene that fell off of the drums.

* 12:15 NW and K. Glaser offsite.

Problems/Observations Noted: .

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	January 21, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: 5 degrees, prtly sunny

Description of Work Performed:

* 14:30 K. Glaser onsite.

* 14:40 Jim of NW onsite with a box truck.

* 15:00 A roll-off for scrap steel staged outside the pickle room.

* 15:30 2 additional MW persons onsite.

* Cover and sealed the unused drums. Placed them in the box truck to be shipped back to the drum provider.

* NW tried for an hour to scrap, hammer and brush clean one of the burner tubes. This was unsuccessful. Will have NW cut the tubes and place in roll off as hazardous steel for disposal.

* NW cleaned about 15 cft of salt from the top of the tank - south end.

* NW cut a 2' x 3' portion of the outside shell of the tank on the south end. Found the glass wool insulation full of kolene salts. The insulation will be disposed of as hazardous waste with the kolene salts.

* NW delivered a Kubota KH045 excavator to the site.

* NW tried to use a jackhammer to break up the remaining salt. It took 2 hours to break up a 2' x 2' area. ***Not a practical method.

* NW took 2 samples of the kolene salt for disposal anaytical.

* NW & K. Glaser offsite at 22:45.

Problems/Observations Noted: .

Future Planned Work

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	January 22, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: Partly Cloudy, 5 degrees, Lake Effect snow moving in

Description of Work Performed:

* 13:50 Jim of NW onsite to spot a roll off due between 13:30 and 14:30.

* 14:45 K. Glaser onsite.

* 15:30 The other 2 NW people onsite. M. Moore onsite.

* Informed G. Weber of NW that the Arc cutter isn't very efficient at cutting steel. It is not any quicker than an oxygen/acetylene torch.

* NW cutting the raise cat walk from the east side of the tank.

* Taking hazardous steel to a BFC roll off. Placing clean steel in a scrap roll off.

* The over head door in the pickle room is frozen shut. NW is now using an overhead door just west of the pickle room.

* 22:20 NW and K. Glaser offsite.

Problems/Observations Noted:

* Tried cutting 1/4" steel with the arc cutter. It took 3 rods and 5 minutes to cut 3' . This is slower than a regular oxygen/acetylene torch.

* Ran out of Acetylene. NW will have to get another tank and get them refilled every day or 2.

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	January 23, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: Partly Cloudy, 5 degrees, Lake Effect snow moving in

Description of Work Performed:

* 14:30 K. Glaser and Jim of NW onsite.

*15:15 other 2 NW people onsite.

* Cut a 4' x 4' opening in the 1" steel on the south end of the tank. Took approximately 40 minutes. Still not much quicker than an oxygen/acetylene torch.

* NW cutting up the cat walk and burner tube steel into 3' pieces to go as hazardous steel.

* Most cutting done with an oxygen/acetylene torch. Some small steel cut with a reciprocal saw.

* 22:30 NW and K. Glaser offsite.

Problems/Observations Noted:

* Discussing different methods of cleaning the 1" steel so it can be sent offsite as scrap steel.

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	January 24, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk,
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions:

Description of Work Performed:

* 14:30 K. Glaser and 3 of NW people onsite.

* Cut up the remaining burner tubes and placed in the hazardous steel roll off.

* 16:45 Tony of NW onsite. He had to stop and pick up additional oxygen and acetylene.

* Got the calculations for the natural gas used and the requested compensation for DSS through Ken Kuick. Total bill was $1432.08. Will forward to M. Moore and further to NW for payment.

* 22:30 NW and K. Glaser off site.

Problems/Observations Noted:

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	January 28, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: Partly cloudy, 18 degrees

Description of Work Performed:

* 14:30 K. Glaser and NW onsite.

* NW cutting up the steel "bridge" from between the kolene tank and the quench tank.

* M. Moore onsite for an hour.

* NW is cutting the outside shell off the south end of the tank and proceeding further around the east side of the tank. (Above the floor)

* Removing glass insulation and the kolene salts that seeped in and placing in the hazardous salts roll off.

* NW picking up spilled kolene salts from the parking area where the roll offs are staged.

* 22:30 NW and K. Glaser off site.

Problems/Observations Noted:

* NW is looking into purchasing an 8' round 2' deep steel tank to use to decontaminate the 1" steel.

* Talked with K. Kuick of DSS, there are still some live electrical lines in the pit on the east side of the kolene tank.

* Standard Safety Equipment: hard hat, steel toed boots, tyvex, safety glasses and/or face shield, particulate filtered half face respirators.

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	January 29, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: Sunny, 20-25 degrees

Description of Work Performed:

* 1300 K. Glaser onsite checking on Zebra and SJB Drilling.

* 1430 Jim of NW onsite. Cannot start work until other NW people onsite.

* 1540 2 other NW people onsite. Lost an hour.

* 17:30 4th NW person onsite.

* NW beginning to cut the 1" steel from the south end of the kolene tank, the heating/burner side.

* NW has cut off the remaining exterior steel from the east side of the kolene tank. This steel is cut into 3' pieces to go off site as hazardous steel. The insulation and any salts are going off as hazardous waste.

* NW has cut the first 8' of the tanks heating side 1" steel.

* 22:30 NW and K. Glaser offsite.

Problems/Observations Noted:

* NW was not onsite until 15:40. They were picking up supplies, but we lost an hour of work.

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	January 30, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: Sunny, 20-25 degrees

Description of Work Performed:

* 1300 K. Glaser onsite checking on Zebra and SJB Drilling. Zebra did 8 borings to the east end of Lucas Ave. SJB is drilling and construction MW-26.

* 1430 2 NW people onsite.

* NW delivered onsite a Komatsu 140 backhoe with a hoe ram. Took the Kubota excavator offsite.

* 15:00 NW now has a total of 5 workers onsite tonight.

* NW brought onsite a steam pressure washer to see if it will clean the kolene from the 1" thick steel.

* NW purchased an 8' round x 2' deep steel tank. This will be used to catch the decontamination waters as they clean the 1" steel.

* NW is using the Komatsu backhoe with hoe ram to break up the kolene salt sludge in the bottom of the tank. This is working well. It will take little time to break up the kolene once the steel sides are cut away.

* 22:30 NW and K. Glaser offsite.

Problems/Observations Noted:

* The hoe ram works well to break up the hardened kolene salt sludge and the hot water/steam pressure washer works well removing the kolene salt residue from the steel.

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	January 31, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: Sunny, 20-25 degrees

Description of Work Performed:

* 1300 K. Glaser onsite checking on Zebra and SJB Drilling. Zebra did 8 borings to the east end of Lucas Ave. SJB is drilling and construction MW-26.

* 1430 2 NW people onsite.

* NW delivered onsite a Komatsu 140 backhoe with a hoe ram. Took the Kubota excavator offsite.

* 15:00 NW now has a total of 5 workers onsite tonight.

* NW brought onsite a steam pressure washer to see if it will clean the kolene from the 1" thick steel.

* NW purchased an 8' round x 2' deep steel tank. This will be used to catch the decontamination waters as they clean the 1" steel.

* NW is using the Komatsu backhoe with hoe ram to break up the kolene salt sludge in the bottom of the tank. This is working well. It will take little time to break up the kolene once the steel sides are cut away.

* 22:30 NW and K. Glaser offsite.

Problems/Observations Noted:

* The hoe ram works well to break up the hardened kolene salt sludge and the hot water/steam pressure washer works well removing the kolene salt residue from the steel.

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	February 3, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: Over cast, light showers, 35 degrees

Description of Work Performed:

* 13:00 Checking on SJB drilling.

* 14:30 4 NW people onsite.

* The east half (burner/heating side) is cut off at floor level.

* NW began cutting the top "rail" off the west side of the kolene tank.

* 22:40 NW and K. Glaser offsite.

Problems/Observations Noted:

* DSS has completed all utility disconnects. Electric to the kolene tank pit is disconnected.

* NW is having trouble working on the west side of the tank as there is no easy access. They are working between 2 tanks that are very close together with a lot of spilled kolene salt in between.

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	February 4, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: 50+ mph winds, 30 degrees. 20:00hrs. Snowing and blowing, poor visibility

Description of Work Performed:

* 12:00 Met M. Moore at the SJB drill rig on Lucas Ave. He is overseeing the drilling today.

* 15:15 3 NW people onsite. The forth could not get to Dunkirk from Perry due to poor visibility.

* NW removed the bucket from the backhoe and installed the hoe ram. Breaking up the kolene salt in the tank.

* A second kolene salt roll off was delivered to the site today.

* 22:40 NW and K. Glaser offsite.

Problems/Observations Noted:

*

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	February 5, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: Overcast, 20 degrees

Description of Work Performed:

* Checked on SJB drillers at 9:00. Checked on SJB at 11:30. They are drilling at the corner of Lucas Ave and Brigham Rd. They are concerned that the drill rig may not drive out of the location as there is some soft soils in the area.

* Rock in this location was at 14' below ground surface.

* 15:00 4 NW people onsite.

* Cutting steel from the west side of the kolene tank.

* Cleaning the 1" steel with steam pressure washer.

* Decontaminating the backhoe and hoe ram.

* Asked NW to clean up around the roll off boxes.

* 21:00 hrs. K. Glaser offsite.

Problems/Observations Noted:

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	February 6, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: Overcast, 20 degrees

Description of Work Performed:

* 14:45 2 NW people onsite.

* Using a jack hammer to remove the remaining salts from the corners of the kolene tank.

* 17:00 2 additional NW people onsite with the Kubota 045 excavator.

* Using the Kubota to clean up around the roll off containers.

* Loaded the decontaminated Komatsu back hoe onto the low boy to take offsite.

* 21:00 3 NW people cutting with torches and/or the arc cutter.

* Also removing insulation and salts from between steel and placing in hazardous waste roll off.

* 22:30 NW and K. Glaser offsite.

Problems/Observations Noted:

* Cutting the west side of the tank is difficult due to the amount of kolene salts accumulated on the outside of the tank.

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	February 10, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: Overcast, 20 degrees

Description of Work Performed:

* NW removed approximately 1/3 of the 1" steel tank liner bottom on Friday, February 7, 2003.

* There is a large pile of contaminated steel on the floor. NW cleaning and cutting 1" steel all night.

* Scrap roll off full. Staging clean steel inside.

* The fire brick insulation under the tank has kolene salt in it. The bricks and salts will go offsite as hazardous waste with the kolene salts.

* The 500 gallon decontamination water holding tank is full. The 1500 gallon tank has 1100 gallons. Will need another tank tomorrow.

* 22:20 NW and K. Glaser offsite.

Problems/Observations Noted:

* The steam pressure washer has had a lot of down time. Excess, unburned fuel is getting into the chamber and later ignited in a ball of flame and smoke. NW is attempting to repair.

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	February 11, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: 5 degrees

Description of Work Performed:

* 14:30 Jim of NW onsite

* 15:00 3 other NW people onsite.

* Cut and removed from pit the remaining 1" steel.

* Cutting and cleaning 1" steel.

* 22:30 NW and K. Glaser offsite.

Problems/Observations Noted:

* Further problems with the steam pressure washer. The igniter works sporadically and causes large flare ups when it finally does work. NW has determined the problem to be a faulty transformer. They will bring a replacement transformer or steam pressure washer tomorrow.

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	February 12, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: 5 degrees

Description of Work Performed:

* 14:30 Jim of NW onsite

* 15:00 3 other NW people onsite.

* Cut and removed from pit the remaining 1" steel.

* Cutting and cleaning 1" steel.

* 22:30 NW and K. Glaser offsite.

Problems/Observations Noted:

* Further problems with the steam pressure washer. The igniter works sporadically and causes large flare ups when it finally does work. NW has determined the problem to be a faulty transformer. They will bring a replacement transformer or steam pressure washer tomorrow.

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	February 13, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: 10 degrees, 20 mph winds

Description of Work Performed:

* NW is loading out the insulation brick and spilled salts from between the inside and outside tanks.

* The third hazardous salt roll off is full.

* NW has a different (rental) steam pressure washer onsite today.

* The first roll off of scrap steel went off site 2/11/03.

* All 1" steel is cut to size...much remains to be decontaminated.

* All salt waste between the tanks and above the ground level is in roll offs.

* Cutting the floor of the tank liner. There are several beams beneath the tank for structure strength. These make cutting the tank very difficult.

* NW has an additional 1500 gallon tank onsite for decon waters.

* 22:30 NW and K. Glaser offsite.

Problems/Observations Noted:

* Steel decontamination is a day behind due to the malfunctioning steam pressure washer.

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	February 14, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: Sunny, 20 degrees

Description of Work Performed:

* 15:00 4 NW people onsite.

* M. Moore onsite.15:00 until 15:30.

* Cutting the remaining wall on the east side of the tank, below the floor level. Placing the insulation and kolene salts in the hazardous waste roll off.

* Washing 1" steel for scrap.

* Cut a 4' section of the tank's outer shell bottom. The bottom has 4 - I beams welded to the bottom length wise. Additional I beams run the width of the tank approximately every 6'. This is going to be a time consuming job cutting the remaining tank a part.

* 22:30 NW and K. Glaser offsite.

Problems/Observations Noted:

* Discussed discharge of decontamination waters to the DSS treatment facility with the plant manager. As long as the hexavalent chromium is not too high they can treat our waste water. The high pH from the kolene salt will actually be a benefit to their process. Further the acid nature of the DSS plant waste water will oxidize any hexavalent chromium to chromium 3+.

* Kevin Donnaly of NW was working on the metal grating platform on the north end of the tank when the grating pivoted because it was not supported on the north end and Mr. Donnaly and a tank of compressed oxygen and acetylene fell into the tank sump area. Mr. Donnaly complained of knee soreness, but worked the remaining hours of the shift.

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	February 18, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: Over cast, 20-25 degrees

Description of Work Performed:

* 15:00 4 NW people onsite.

* The I beams beneath the tank sat on 4 - 10" wide x 30" high x 36' long concrete piers. The piers do not extend to any walls, but end at the end of the tank. The concrete is coated with a plastic coating. Over the years of spilling kolene and water, there is approximately 6" of sludge between the piers.

* NW is removing some of the spilled kolene salts around the tank to facilitate the cutting of the tank.

* Continue cleaning the steel. NW will also clean the ½" steel of the tank bottom with the I beams attached.

* 22:30 NW and K. Glaser offsite.

Problems/Observations Noted:

* There is water in the sump around the tank, from the DSS workers washing dipped steel with a fire hose. Excess water sprays all the way to this tank sump.

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	February 20, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: Over cast, 20-25 degrees

Description of Work Performed:

* NW had their 8 hour HAZWOPPER refresher course yesterday and did not work onsite.

* 4 NW people onsite.

* NW has brought a NW owned steam pressure washer onsite to replace the rental unit. The repaired unit did not heat the water sufficiently and was not used. The rental unit is still onsite and was used today.

* The remaining steel from the tank has been removed from the tank pit.

* NW is cleaning steel and some of the steel grating from walk ways.

* NW has begun shoveling some of the salts at the north end of the tank.

* 22:30 NW and K. Glaser offsite.

Problems/Observations Noted:

* The writer talked with G. Weber of NW informing him that I was not pleased with them bring another steam pressure washer onsite that was untested and caused us to lose time once again.

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	February 21, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions:

Description of Work Performed:

* 15:00 NW onsite with 4 people.

* Cutting the steel between the kolene and quench tanks.

* Removing the salts from between the kolene and quench tanks.

* NW got permission from K. Kuick (DSS) to pump our decontamination waters to a sump leading to the DSS waste water treatment facility.

* The steel from between the kolene and quench tank has been removed, however it is noted that there is probably more kolene salt outside of the kolene tank than was inside of it.

* 22:30 NW and K. Glaser offsite.

Problems/Observations Noted:

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	February 24, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: Snow, 15 degrees

Description of Work Performed:

* 14:45 NW onsite with 4 people.

* Shoveling the sludge and salts from the south end of the kolene tank sump.

* NW cut off the gas line that lead to the kolene tank and several other electrical conduits around the kolene tank sump.

* 22:30 NW and K. Glaser offsite.

Problems/Observations Noted:

* NW brought the original steam pressure washer back to the site. It has been repaired and worked well tonight.

* Requested that G. Weber of NW look into a man lift so they could be prepared to clean the north wall in the near future.

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	February 25, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: Snow, 15 degrees

Description of Work Performed:

* 14:45 NW onsite with 4 people.

* Shoveling the sludge and salts from the south end of the kolene tank sump.

* NW cut off the gas line that lead to the kolene tank and several other electrical conduits around the kolene tank sump.

* 22:30 NW and K. Glaser offsite.

Problems/Observations Noted:

* NW brought the original steam pressure washer back to the site. It has been repaired and worked well tonight.

* Requested that G. Weber of NW look into a man lift so they could be prepared to clean the north wall in the near future.

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	February 27, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: Snow, 15 degrees

Description of Work Performed:

* NW loaded 3 semi trailers with drums of kolene salt of transport to Chemtron in Avon, OH for disposal.

* 2 man crew cutting and decontaminating steel.

* Also shoveling salts from the sump area of the Kolene Tank and taking to roll off containers.

Problems/Observations Noted:

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	March 3, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: Snow, 15 degrees

Description of Work Performed:

* NW has a 60' man lift onsite to assist in the cleaning of the north wall adjacent to the Kolene Tank.

* Preliminary cleaning of the wall is done using shovels and brooms.

* Continuing to cut and decon steel.

Problems/Observations Noted:

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	March 4, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions: Snow, 15 degrees

Description of Work Performed:

* NW continuing to clean the north wall.

* digging kolene salts from around conduits and blowers.

* Cutting and decontaminating heavy steel.

Problems/Observations Noted:

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	March 5, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions:

Description of Work Performed:

* NW shoveling kolene salts from under walk grates.

* NW removed the blower units from the sump.

* NW to pressure wash the north wall tonight.

Problems/Observations Noted:

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	March 6, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions:

Description of Work Performed:

* NW now shoveling sludge/salts from beneath the north walk grates. Taking to roll off containers outside.

* Cutting and decontaminating steel.

Problems/Observations Noted:

* Trying to schedule NW's vacuum truck to vacuum the sludges from the kolene quench tank ASAP.

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	March 10, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions:

Description of Work Performed:

* NW cutting the utility lines to the kolene quench tank.

* Continue to remove sludge/salts from beneath the north walk grate.

* NW picked up speedy dry to absorb excess liquids in the quench tank sludge.

Problems/Observations Noted:

* Vacuum truck unavailable today. Reschedule for tomorrow.

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	March 11, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions:

Description of Work Performed:

* NW has the Vacuum truck onsite today. They plan to vacuum all the sludge from the kolene quench tank and then blow it off the vac truck into roll off containers.

* NW is using fiberglass ladders and body harness to access the quench tank.

Problems/Observations Noted:

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	March 17, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions:

Description of Work Performed:

* NW has cleaned the quench tank.

* NW cut up the quench tank as necessary to clean and remove it from its original location.

* tonight NW is shoveling and removing sludge from under the quench tank.

Problems/Observations Noted:

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	March 18, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions:

Description of Work Performed:

* NW is to clean/decon their tools

* NW is going to cut up the poly tanks used to store decontamination water and put in a solid waste roll off.

* NW doing general clean up of the work area.

Problems/Observations Noted:

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	March 20, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions:

Description of Work Performed:

* NW spent yesterday pre weighing and adjusting the weights in the kolene salt roll off containers.

* NW added more speedy dry to the quench tank sludge roll offs.

* NW is decontaming the fork lift and excavator.

* NW pressure washing the floors.

Problems/Observations Noted:

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File

New York Department of Environmental Conservation
Division of Environmental Remediation
Region 9 Office-Buffalo

DAILY FIELD REPORT

Date:	March 31 - April 7, 2003
Site Name:	Altech
Site Number:	907022
Location:	City of Dunkirk.
DEC Project Engineer:	Maurice Moore, NYSDEC - Buffalo
Contract Engineer:	
Contractor:	Nature's Way (NW)
Job Phone:	None

Weather Conditions:

Description of Work Performed:

* BFC onsite to transport the roll off containers of kolene waste and hazardous steel to Perma-Fix in Brownstown, MI. The roll offs were transported 2 per day for 6 days.

Problems/Observations Noted:

* Additional speedy dry was added to the quench tank sludge roll offs to absorb more free liquids

Future Planned Work:

Respectively Submitted: Kevin Glaser

Follow-up required for:

Distribution: Maurice Moore, File