



Sevenson Environmental Services Inc.

TNT Burn 1 Summary Report

DACW49-00-0002 D.O. No. 0002

On Monday July 24, 2000 Sevenson Environmental Services Inc. was conducting routine sampling procedures on the TNT pipeline located at the Chemical Waste Management Site, Model City, NY. A subcontracted Unexploded Ordnance (UXO) Expert from ISSI Unexploded Ordnance Inc. was on location for all procedures. During the pre-excavation phase of test pit # 12 the UXO expert noticed an area, outside the exclusion zone, that contained what looked like crystalline nodules/lumps. Upon closer inspection the UXO expert found yellow/orange colored nodules/lumps. The area containing the suspect crystals measured approximately 2" x 2 1/2" and approximately 1/2" in height. Using a Field Testing Kit the UXO expert determined that the sample tested positive for the presence of TNT.

The UXO expert immediately alerted Sevensons on-site safety officer of his findings. Sevensons safety officer immediately notified the USACE representative of the findings. The UXO expert recommended that all operations be stopped and that the area be evacuated immediately. At that point all personnel except the UXO expert and Sevensons safety officer left the area. The UXO expert and Sevensons safety officer remained at the site to rope off and flag the area. During the procedure the UXO expert noticed additional crystalline nodule/lumps on the surface inside the roped off section the size of quarters and smaller. The area was then fenced off using orange construction fence while the UXO expert applied mineral oil to all suspect TNT crystalline structures. The area that was fenced off measures approximately 20' x 60'.

Sevenson hired a guard, by order of the USACE, to watch the site to insure that no one entered the area. The USACE requested that Sevenson hire a second UXO expert to help investigate the situation. A second ISSI Unexploded Ordnance Inc. representative arrived on site at 2:00 Wednesday July 26, 2000.

On July 27, 2000 Severson applied for a Restricted Burn Permit through the Niagara County Health Department. On August 4, 2000 The Niagara County Health Department issued a 1 day restricted burning permit to Severson Environmental, (Permit No. 2000-05 attached). Severson notified CWM and the Youngstown Fire department of the intended activities. Severson established a 670-foot exclusion zone around the burn site.

On August 4, 2000 Severson's subcontracted UXO expert, ISSI UXO conducted a single burn in the following manner:

The burn site was prepared by:

- Removing all vegetation from the area.
- The area was soaked with water.
- A 55-Gallon Drum was cut in half longitudinally to serve as a burn pan.

Dunnage material (wood) was placed in the drum and saturated with Kerosene to insure ignition of the material throughout the burn pan.

Two UXO personnel gathered the crystalline TNT nodules/lumps by picking up the nodules by hand, (wearing protective gloves), and placing the nodules into a plastic bucket. The nodules were gently placed in the bucket and covered completely with mineral oil. Once the bucket was determined to be safely full by the UXO personnel it was transported to the burn site. The TNT nodules were transferred to cardboard boxes and the cardboard boxes were placed on top of the dunnage inside the burn pan. Four pre-cut ¼ diamond mesh sections were placed over the burn pan to control burning embers. Two ignition charges were placed in the dunnage material.

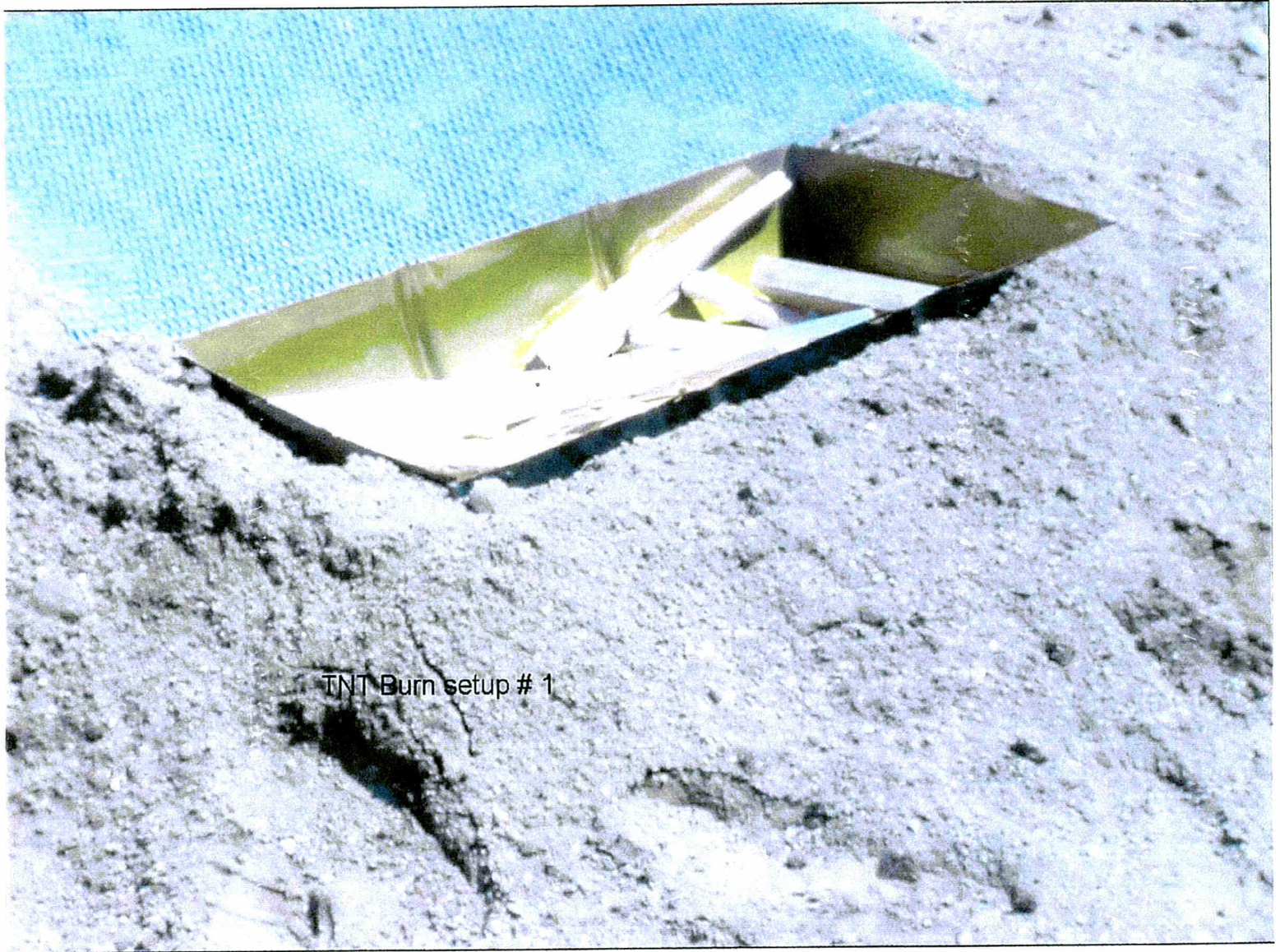
Severson Personnel conducted a perimeter search to insure that no one was inside the 670-foot exclusion zone. All roads around the burn site were blocked off as to not allow any traffic through the area. When the area was secure the UXO personnel remotely ignited the charges.

After a 24-hour cooling period the UXO personnel visually inspected the burn site.

Environmental samples of the ash were taken and shipped to:

Chemical Quality Assurance Branch, 420 south 18th Street, Omaha, NE 68102-2586, as directed by the USACE. All remaining ash was collected and placed in a 55 gallon drum in the contaminated material storage area.

TNT Burn setup # 1





NIAGARA COUNTY HEALTH DEPARTMENT

APPLICATION FOR RESTRICTED BURNING PERMIT

ISSUED PURSUANT TO CHAPTERS 12 & 14 OF THE NIAGARA COUNTY SANITARY CODE

APPLICANT'S NAME: Jerry CASTIGLIONE		PHONE: 754 2958	LOCATION OF OPEN FIRE: CWM 1550 BALMER RD MIDDLE CITY, NY 14107	
MAILING AND STREET ADDRESS: 2749 LOCKPORT RD SEVENSON ENVIRONMENTAL				
CITY, TOWN, VILLAGE OF: NIAGARA FALLS	COUNTY: Niagara	STATE: NY	ZIP: 14305	TYPE AND MATERIAL TO BE BURNED: CRYSTALLINE (TNT)
PERSON SIGNING APPLICATION: <input type="checkbox"/> Employee of Applicant, <input checked="" type="checkbox"/> Applicant		DATE OF APPLICATION: 7-27-00		
EMPLOYEE'S NAME: SAME AS ABOVE				METHOD OF STARTING FIRE: ELECTRICALLY INITIATED SQUIB.
EMPLOYEE'S TITLE:				
NAME OF PERSON SUPERVISING OPEN BURNING: TEREMIAH HINTON		PHONE: 754-2958	REASONS FOR NECESSITATING BURNING OF MATERIAL: ELIMINATE A POTENTIAL EXPLOSIVE HAZARD	
ADDRESS (Street): - see Business Card (PO Box 364 Limestone, ME 04750)				
CITY, TOWN, VILLAGE OF:	COUNTY: Niagara	STATE:	ZIP:	AMOUNT OF TIME REQUIRED FOR RESTRICTED OPEN BURNING AND EXPECTED COMPLETION DATE: BURNING TIME 1 Hour COOLING TIME 23 Hour
TYPE OF RESTRICTED BURNING PROPOSED: OPEN BURNING CRYSTALLINE (TNT) APPROX 1/2 POUND SEE ATTACHMENT				EMERGENCY METHOD FOR EXTINGUISHING FIRE (Please Describe): ABC FIRE EXTINGUISHER

I Agree to Abide by All Conditions of the Permit.

DATE: 7-27-00	APPLICANT'S SIGNATURE: Jerry Castiglione	TITLE: Project Manager
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THE FOLLOWING CONDITIONS APPLY:	
1. All burning must adhere to Municipality codes.	
2. No smoke, fumes or odor shall interfere with any receptor or cause a health problem.	
3. The Fire Department must be notified ONE DAY BEFORE THE BURNING of the EXACT time.	
4. Applicant must comply with Fire Department requirements.	
5. Niagara County and the Niagara County Health Department are not liable for any damages as a result of the fire.	
6. The permit holder must comply with all other State and Municipal regulations.	
7. This permit is issued for ONE DAY ONLY and expires 30 DAYS FROM DATE ISSUED.	

RETURN A COPY OF THIS APPLICATION AND THE
REQUIRED \$50.00 REVIEW AND SITE
INSPECTION FEE TO:

NIAGARA COUNTY HEALTH DEPARTMENT
Environmental Health Division
5467 Upper Mountain Road
Lockport, NY 14094-1899

FOR OFFICE USE ONLY		
DATE RECEIVED: 7/27/00	AMOUNT RECEIVED: \$50.00	CASH: <input checked="" type="checkbox"/>
RECEIVED BY: ma	PERMIT NO: 2000-05	M.O. NO: <input checked="" type="checkbox"/>
DATE ISSUED: 8/4/2000	BURNING DATE: 1 DAY PERMITTED: August 2000	CHECK NO: 019503
SIGNATURE OF APPROVAL: [Signature]		

BURNAPP-0897

00711ACM

RECEIVED JUL 28 2000

N 1176000

N 1174500

670' Radius

X = Burn Area

