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FINAL REPORT IMMEDIATE RESPONSE ACTION

RASMUSSEN SITE LIVINGSTON COUNTY, MICHIGAN

OCTOBER 1990 REF. NO. 2433 (9)

CONESTOGA-ROVERS & ASSOCIATES

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1.0 INTRODUCTION

This report has been prepared to document the Immediate Response Action undertaken at the Rasmussen Site (Site) in Livingston County, Michigan during late 1989 and 1990. Response activities were performed in accordance with the terms and conditions of an Administrative Order by Consent under Section 106(a) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA). This Consent Order, hereafter referred to as 106 Order, was agreed to by United States Environmental Protection Agency (USEPA) and a group of Potentially Responsible Parties (PRPs). The PRP group (Respondents) do not represent the total number of PRPs at this Site, but only those who chose to participate as Respondents to the 106 Order.

Response activities were conducted in accordance with the detailed procedures presented in the "Work Plan, Immediate Response Action, Rasmussen Dump Site, Livingston County, Michigan", dated July 1989, prepared by Conestoga-Rovers & Associates (CRA).

The Work Plan was approved by USEPA in consultation with Michigan Department of Natural Resources (MDNR). Subsequent to the signing of the 106 Order, agency authority for the response action was transferred from USEPA's Remedial Project Manager (RPM) to an on-Scene Coordinator (OSC). The Health and Safety Plan included as an appendix to the Work Plan was subsequently amended in December 1987 at the request of the OSC prior to commencing excavation activities.

All field activities were conducted under USEPA and/or MDNR oversight.

Removal activities were performed from November 1989 through January 1990 and consisted of the excavation, staging and sampling of buried containers at the Site. Samples from the excavated containers were analyzed and the analytical data was reviewed during February, March and April 1990.

The Respondents notified USEPA of proposed disposal facilities for the staged containers on June 18, 1990. All the proposed facilities were approved for use by USEPA on June 19, 1990. Following written confirmation of USEPA approval dated June 21, 1990, the staged and characterized waste materials were transported to the approved disposal facilities during late June and July 1990. All field-related activities pursuant to the 106 Order were completed in August 1990.

The work pursuant to the 106 Order is complete and this report represents the final submittal for the Immediate Response Action. Copies of the general correspondence documenting the response action are provided in Appendix A for ease of reference. Copies of the progress reports submitted to USEPA are not included in this final report but can be found in USEPA's files for this project.

2.0 BACKGROUND

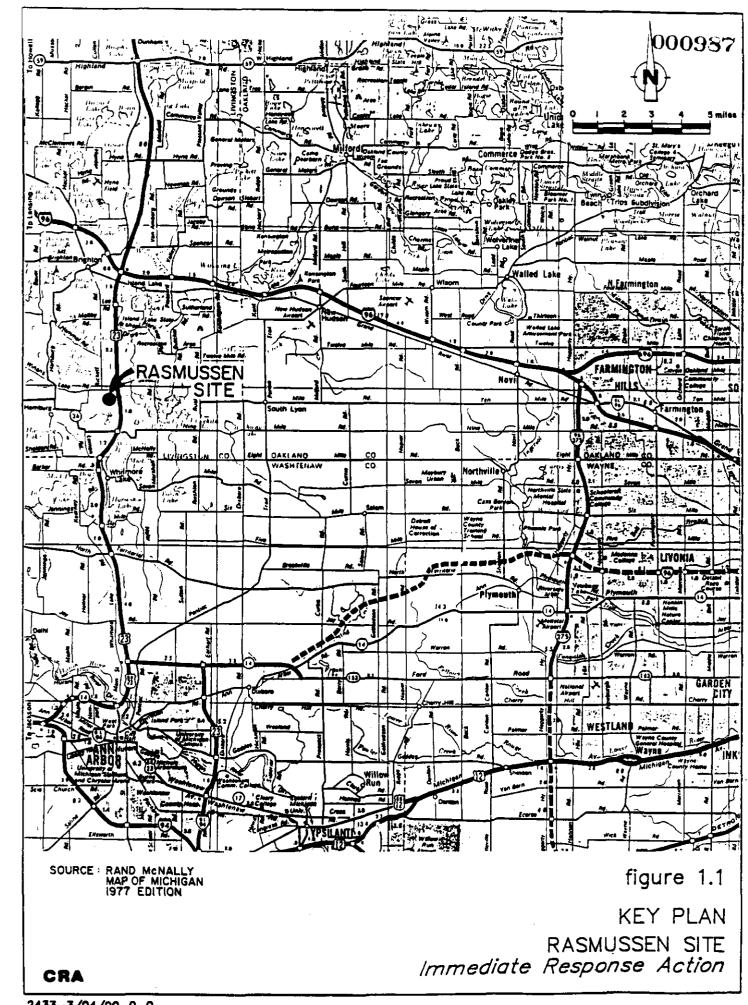
The Rasmussen Site is a former municipal and industrial landfill site located in Green Oak Township, Livingston County, Michigan. As shown on Figures 1.1 and 1.2, the Site is situated west of US Route 23, approximately 10 miles north of Ann Arbor, Michigan, and is located to the south of Spicer Road.

The Site is presently listed on the Federal National Priorities List (NPL) as established under CERCLA and 40 CFR Part 300. An MDNR Contractor completed the Remedial Investigation (RI) for the Site in 1988. The RI findings were presented in the document entitled, "Final Remedial Investigation Report - Spiegelberg and Rasmussen Dump Sites -Green Oak Township - Livingston County, Michigan", prepared by NUS Corporation, dated September 1988.

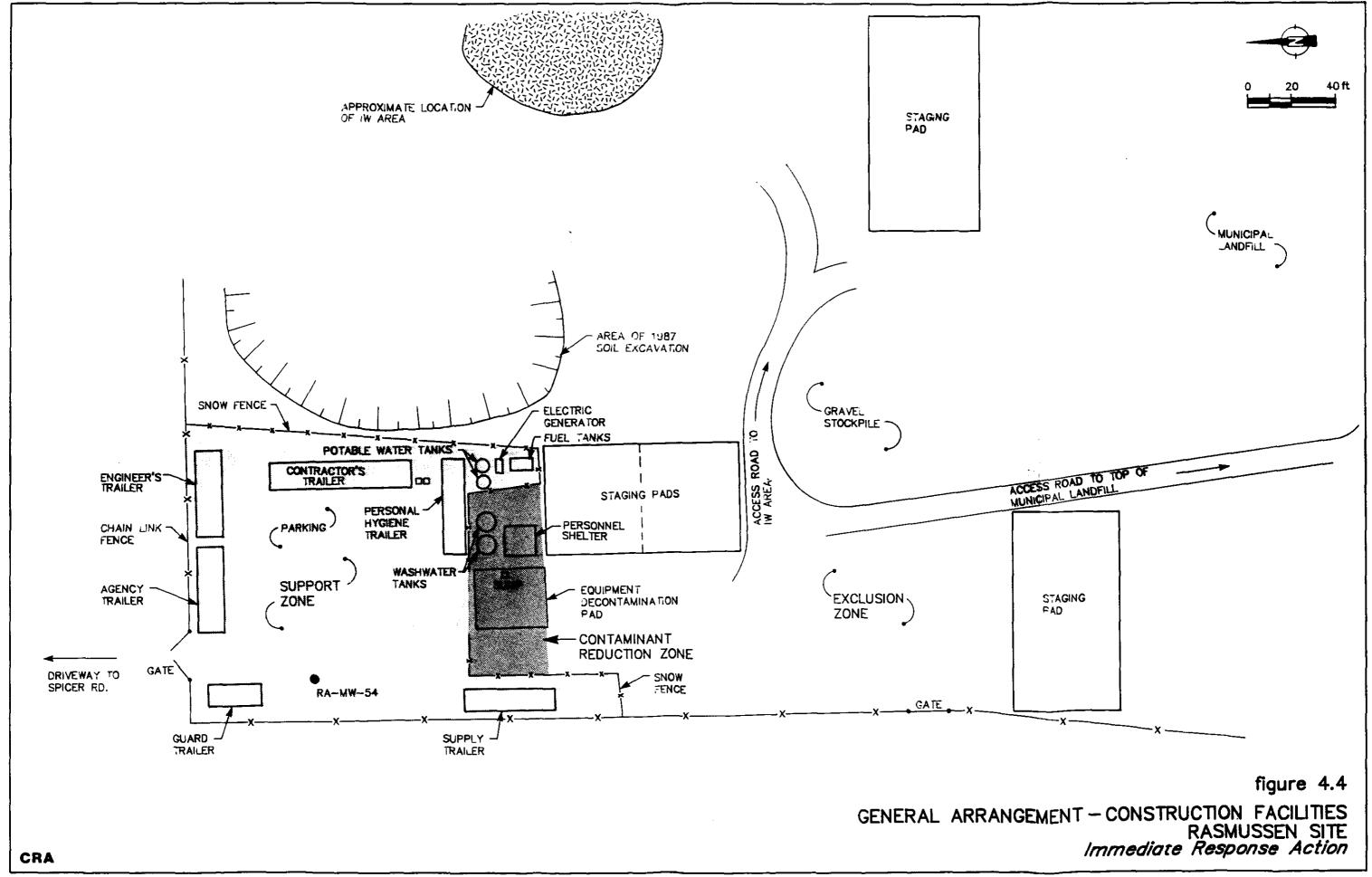
The RI identified several on-Site areas of buried waste and soils containing site derived constituents. These areas included:

- i) Top of Municipal Landfill (TML);
- ii) Northeast Buried Drum (NEBD) Area;
- iii) Industrial Waste (IW) Area;
- iv) Probable Drum Storage/Leakage/Disposal (PDSLD) Area; and
- v) West Berm Area.

Figure 1.2 shows the location of these five areas.



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Of these five areas identified by the RI, the Industrial Waste (IW) Area and the Northeast Buried Drum (NEBD) Area were considered by MDNR and USEPA to have current or potential future impact on groundwater due to the presence of buried containerized wastes. These two areas are highlighted on Figure 1.2. Materials within the IW Area were found to contain elevated levels of site-derived constituents associated with buried containerized waste. The groundwater beneath this area had elevated levels of some of the same constituents. Materials within the NEBD Area were also found to contain elevated levels of site-derived constituents associated with buried containerized waste. However, the RI did not identify any groundwater impact resulting from this area.

The 106 Order required that the Respondents remove buried drums and visibly affected soils and debris immediately associated with the drums within the limits of the IW Area and the NEBD Area under an Immediate Response Action.

In addition, the 106 Order required the removal of drums and visibly affected soils and debris immediately associated with the drums within the area shown on Figure 1.2 referred to as the Surface Drum (SD) Area. This area, which was not identified in the RI, is located on the surface of the Top of Municipal Landfill. This area was investigated during the RI by a test pit investigation. Waste materials in this area were found to include containerized materials which were not removed during the USEPA Removal Action conducted in 1984.

An Immediate Response Action Work Plan (Work Plan) was developed by the Respondents to outline tasks associated with the excavation, staging, sampling and disposal of containerized waste material at the Site. The Work Plan was provided as an attachment to the 106 Order and provided the basis for all work performed on Site.

3.0 SCOPE OF IMMEDIATE RESPONSE ACTION

The Immediate Response Action involved the removal of all drums, including "buried drums, wastes contained in drums, wastes associated with those drums, and associated visibly contaminated debris" within the NEBD and the IW Areas shown on Figure 1.2. The scope of work also included the removal of drums from the Surface Drum (SD) Area following excavation of the top two feet of the landfill surface. The SD Area is located immediately adjacent to the NEBD Area as shown on Figure 1.2.

Tasks performed during the response action included:

- i) implementation of the Health and Safety Plan;
- ii) mobilization of construction facilities, equipment, material and personnel necessary to perform the work;
- iii) site preparation activities including construction of access roads, drum staging pads and decontamination pad;
- iv) excavation of buried drums and soils/debris immediately associatedwith the buried drums from the NEBD and IW Areas;
- excavation of buried drums and soils/debris immediately associated
 with the buried drums from the SD Area, to a depth of approximately
 two feet below the landfill surface;
- vi) staging of excavated drums and associated affected soil;
- vii) site restoration including backfilling and regrading of the three excavation areas;

- viii) transportation and disposal of all excavated waste material at USEPA approved disposal facilities; and
- ix) project closeout and demobilization from the Site.

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A photographic log highlighting removal activities is presented in Appendix B.

4.0 **PRECONSTRUCTION AND SITE PREPARATION ACTIVITIES**

4.1 **PROJECT ORGANIZATION**

The Respondents retained Conestoga-Rovers & Associates (CRA) to provide overall project coordination and field oversight services during implementation of the Immediate Response Action. Mr. Bruce Monteith, P. Eng. of CRA was designated by the Respondents as Project Coordinator. CRA also provided Field Engineers (Engineer) to oversee the response activities. The Engineer served as the Project Coordinator's on-Site representative and reported directly to the Project Coordinator.

USEPA designated Ms. Maureen O'Mara as the On-Scene Coordinator (OSC) for the Immediate Response Action at the Site. USEPA contracted field oversight services tr. Roy F. Weston, Inc. and Versar Inc.

The MDNR designated Ms. Denise Gruben as Project Coordinator for the Immediate Response Action.

Chemical Waste Management Inc., Enrac Division-Midwest (Contractor) was procured by the Respondents to perform the tasks outlined in the Work Plan. The Contractor provided general contracting services for the duration of the project.

4.2 PRECONSTRUCTION SURVEY

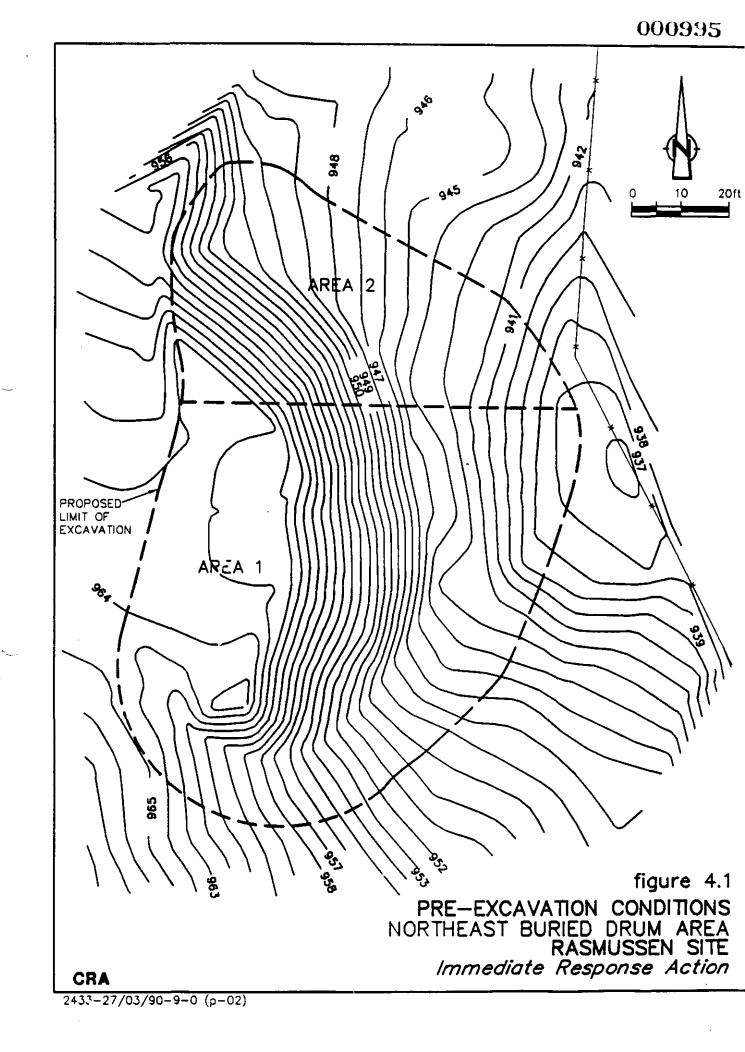
Prior to mobilization by the Contractor, a preconstruction topographic survey was completed at each of the three excavation areas. The survey was performed by Darrell Hughes and Associates (Hughes) of Fowlerville, Michigan. Hughes is a licensed and registered surveyor in the State of Michigan. The preconstruction survey also defined the limits of excavation (by staking) at each of the three excavation areas as presented in the Work Plan. Pre-excavation conditions at the NEBD, SD and IW Areas are shown on Figures 4.1, 4.2 and 4.3, respectively.

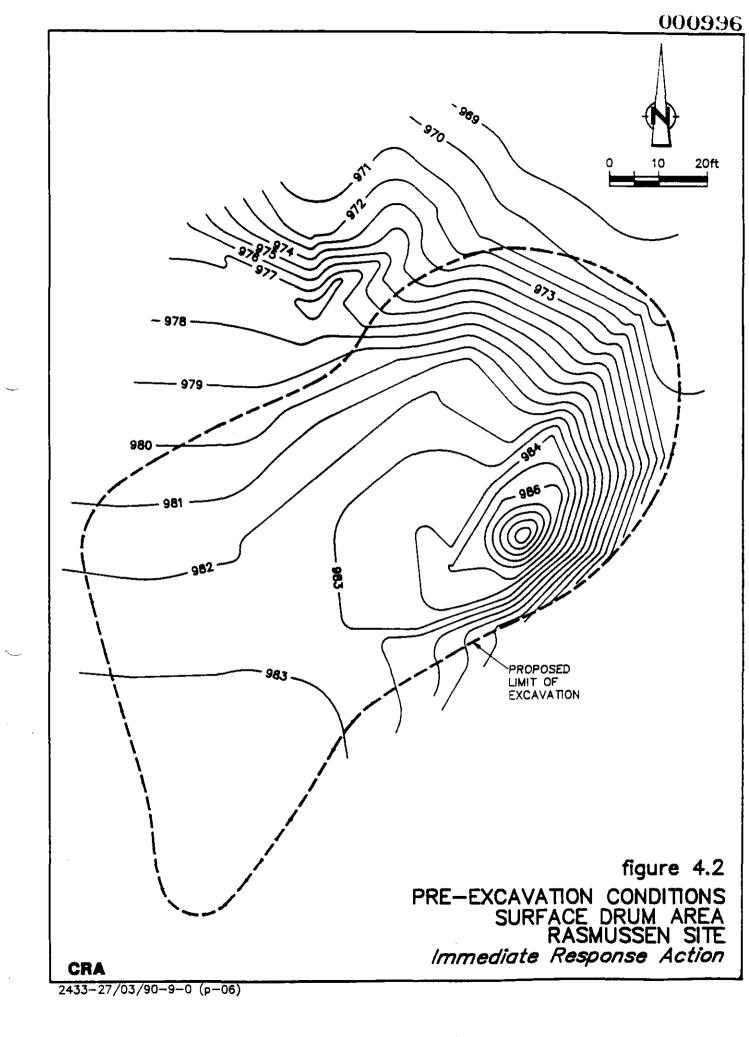
4.3 <u>SITE PREPARATION</u>

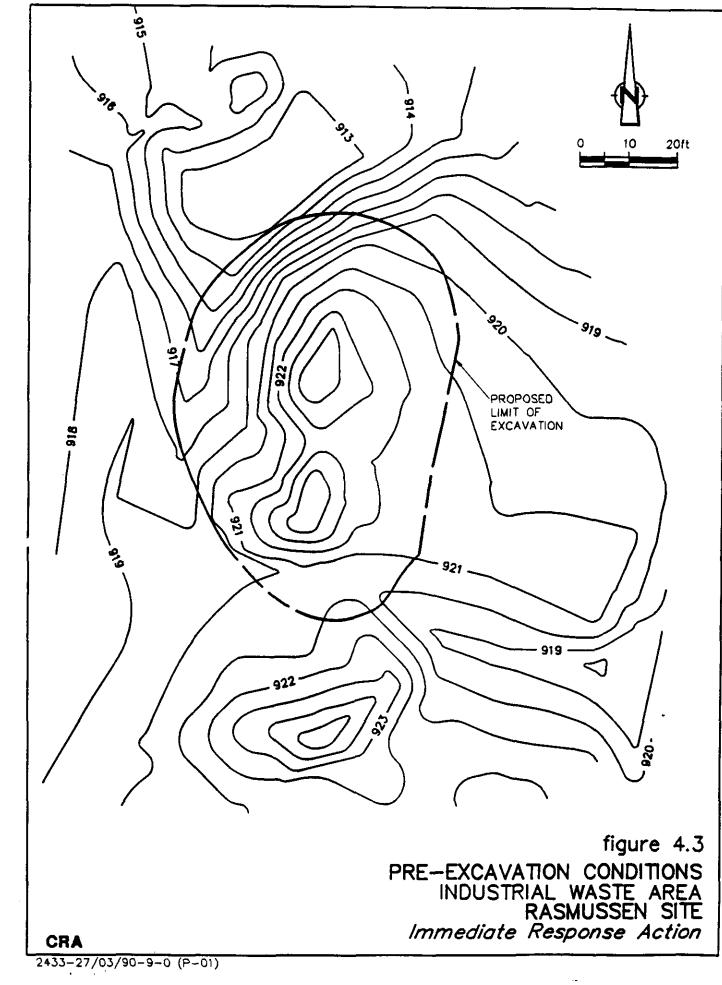
4.3.1 Mobilization

The Contractor mobilized to the Site on November 27, 1989. The Site had previously been secured by a six-foot high chain-link fence installed by MDNR in 1987. Abandoned vehicles located within the proposed fenced support area were removed to areas outside of the fence with the consent of USEPA.

Within the fenced area, the Contractor established: a support area for office trailers and related facilities; a contaminant reduction zone for decontamination activities located between the support zone and the exclusion zone; and an exclusion zone for waste excavation, staging and







handling. Access to the exclusion zone was limited to personnel with proper training and personal protective equipment. The general arrangement of construction facilities is shown on Figure 4.4.

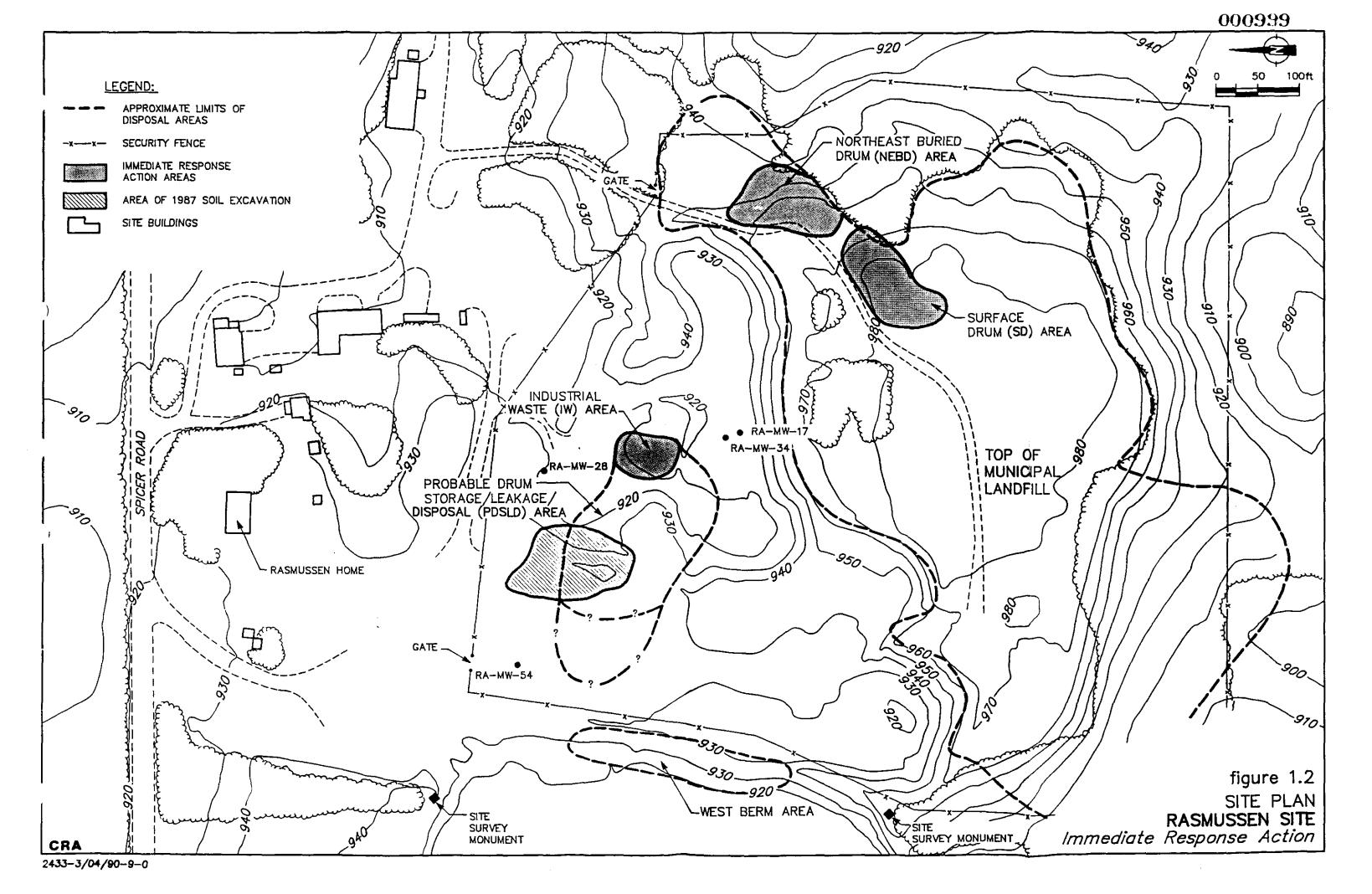
The existing Site access roads were upgraded during the mobilization phase of the project by placing and compacting stone over the existing access roads. No regrading of the landfill cover was required for this operation. Stone was obtained from the on-Site stockpile located within the fenced portion of the property.

Monitoring wells RA-MW-17, RA-MW-34, and RA-MW-54 were protected from damage during construction activities by the placing concrete pipe sections to surround the monitoring wells.

Unarmed security personnel were present on Site on a 24-hour basis prior to the initiation of excavation activities and provided full time security until backfilling was complete. Site security logs are presented in Appendix C.

4.3.2 Staging Pads

Two lined staging pads were constructed during mobilization to provide a central staging area for excavated drums and other anticipated waste material. Each pad was constructed with approximate



overall dimensions of 40 feet by 40 feet and equipped with an integral sump for the removal of rainwater from the pads.

The staging pads consisted of a 30 mil PVC liner overlying a sand base and perimeter berms. The liner was protected by a nominal six-inch layer of sand placed onto the liner. Sand ramps were also constructed over the berms to permit rubber-tired equipment to access the pads.

During excavation of the NEBD Area in December 1989, it became apparent that the two constructed staging pads would not have sufficient capacity for the staging of all excavated drums. An additional staging pad with approximate overall dimensions of 40 feet by 90 feet and similar in construction to the two original pads was constructed on January 2, 1990. The location of this pad is shown on Figure 4.4.

An additional lined drum storage pad was constructed adjacent to the IW Area in late January 1990 to accommodate drums excavated from that area. The location of this pad is also shown on Figure 4.4.

4.3.3 Decontamination Facilities

An equipment decontamination pad similar in construction to the staging pads was constructed within the contaminant reduction zone as shown on Figure 4.4. Trucks, equipment and personnel leaving the exclusion zone were decontaminated on the pad with a high

pressure steam cleaner. The pad was sloped to a sump where washwater was collected and transferred directly into one of two 6,000-gallon washwater storage tanks. Water collected in the sumps of the staging pads was also pumped to the 6,000 gallon on-Site washwater storage tanks. Two 2,000-gallon potable water tanks provided water for showers, washing and decontamination activities.

A decontamination (personal hygiene) trailer was located adjacent to the decontamination pad and was equipped with showers, washing and change facilities for Site personnel. Water from showers and washing was also transferred to the on-Site washwater storage tanks. A personnel shelter was constructed beside the decontamination pad for personnel to doff personal protective equipment prior to entering the hygiene trailer.

5.0 EXCAVATION AND BACKFILLING

5.1 <u>NEBD AREA</u>

5.1.1 Excavation of NEBD Area

Excavation of buried containers commenced at the NEBD Area on December 13, 1989, following implementation of the Site Specific Health and Safety Plan and completion of all Site preparation activities.

The soil cover and municipal landfill materials intermixed with the buried containers were excavated from the NEBD Area and placed on two layers of polyethylene sheeting adjacent to the excavation. A straw bale dike was installed along the east fence line adjacent to the NEBD Area to prevent sediment leaving the excavation area.

Excavation activities commenced at the northwest corner of AREA 1 of the NEBD Area shown on Figure 4.1. The plateau on the western limit of AREA 1 was excavated to reduce the height of the west-east embankment in this area.

Excavation of AREA 1 at the NEBD Area proceeded in an easterly direction by developing steps or benches at four locations within the excavation area. The benches were oriented in a north-south direction and were constructed to provide a level working surface for the equipment and to

provide stable excavation faces. The benches varied in overall height from five to twelve feet.

The excavation continued into municipal landfill materials until no containers were encountered over a depth interval of two to three feet. Due to the severe topography in the area and the use of the bench excavation method, a consistent excavation depth below existing grade could not be maintained. However, the vertical limit of excavation was generally 10 to 15 feet deep and extended deep into the municipal landfill materials.

Following a Site inspection on January 10, 1990 by the Engineer, USEPA OSC, and MDNR Project Coordinator, it was agreed that the vertical limit of excavation in NEBD AREA 1 need not extend to native soil, as presented in the Work Plan, and excavation was deemed to be complete. The basis for this decision was as follows:

- the depth to native soil was significantly greater than anticipated based on an exposed landfill face in excess of 30 feet;
- ii) the relative number and locations of containers encountered substantiated findings indicated by the RI magnetic gradient contours that the containers would be located within the established excavation limits; and

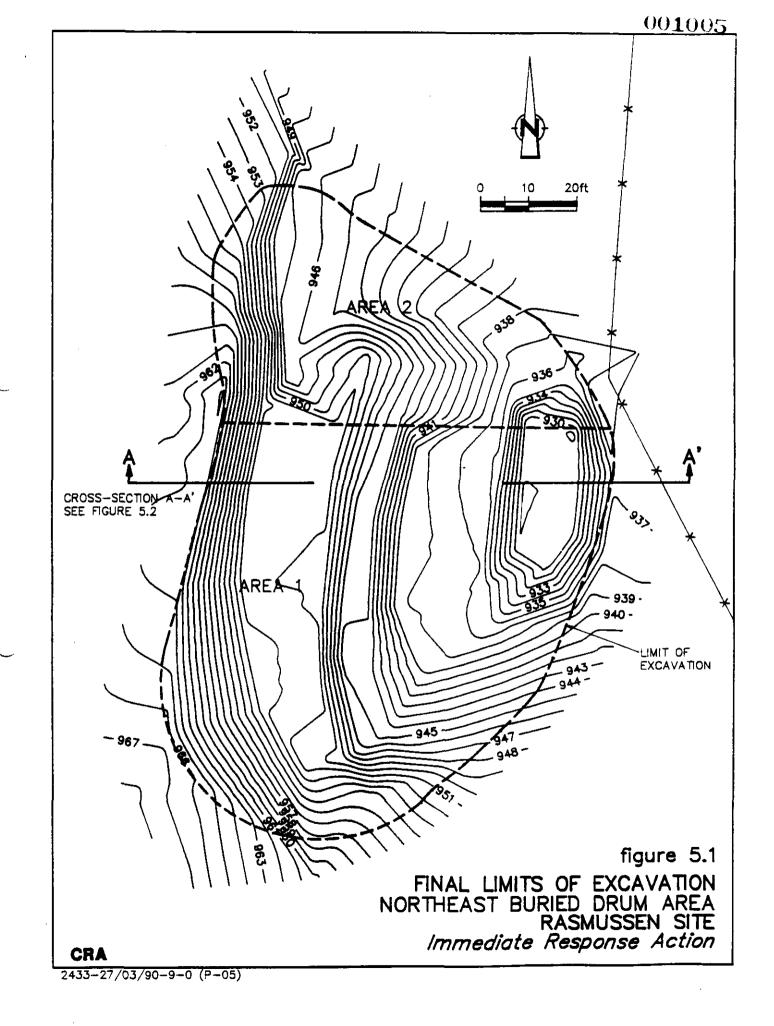
iii) the majority of containers encountered were found in the fill material overlying the municipal landfill wastes thereby substating the theory that the containers were deposited onto the landfill surface after the landfill operations ceased.

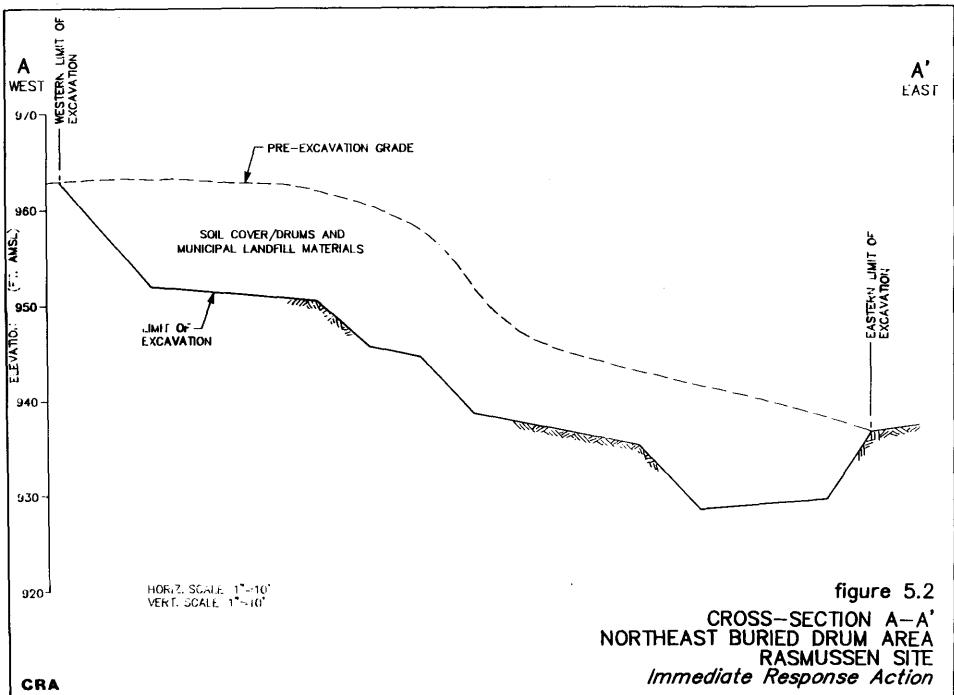
This decision was documented in writing on January 11, 1990 (letter from Monteith to O'Mara).

Hughes surveyed AREA 1 of the NEBD Area on January 11, 1990, prior to backfilling. Results of the topographic survey are shown on Figure 5.1. A cross-section through the excavation area showing pre-excavation grades and elevations upon completion of excavation is shown on Figure 5.2.

5.1.2 Drum Removal - NEBD Area

The majority of containers excavated from the NEBD Area were present in the approximate six foot thick soil cover and immediate underlying landfill material in the western portion of NEBD AREA 1. Upon removal from the excavation, all containers were numbered, logged and screened with either an HNu or Foxboro OVA organic vapor analyzer. Containers were transferred directly to the staging pads following removal from the excavation and were staged in sequential order on the pads with aisleways left open for sampling access.





Drums were overpacked at the excavation as required based on the condition of the excavated drum. Drum hooks or similar attachments to the excavating equipment were utilized to remove drums from the excavation and place drums in either the overpack drums or transport equipment.

A total of 300 containers were excavated from the NEBD Area. Thirty-nine of the containers were 5-gallon cans; two of the containers were 30-gallon drums; and the remainder were 55-gallon drums. A complete drum log summary of all containers excavated from the NEBD is presented on Table 1 in Appendix D.

As shown on Appendix D, Table 1, thirty-six drums were overpacked into new, 85-gallon overpack drums. Three of the overpacked drums were in very poor condition resulting in spillage of drum conten's while overpacking. All spills were immediately excavated and visually affected soils from the spills were placed in a second overpack drum. In such a situation, the overpacked drum was designated "A" whereas the spill area soil in the second overpack drum was given the designation "B" (e.g, RAS 90A, RAS 90B).

Seventy-three of the 300 containers excavated were determined to be RCRA empty (less than two inches of residue). In general, the containers were in very poor condition, crushed, and without lids. Only six of the 300 containers excavated from the NEBD Area contained any quantity of liquids.

All personnel in the area of active excavation were equipped with USEPA Level C personnel protective equipment as described in Section 8.0. Full facepiece respiratory protection with dual organic vapor and particulate cartridges was required for all personnel. Personnel handling drums were equipped with a supplied air respiratory system (USEPA Level B).

5.2 <u>SURFACE DRUM AREA</u>

5.2.1 Excavation of SD Area

Excavation and drum removal activities at the SD Area commenced on January 17, 1990. Initially, the knoll at the southern limit of the SD Area, as shown on Figure 4.2, was excavated. Few drums were present in the sandy knoll material. Following removal of the knoll, the entire SD Area was excavated to an average depth of four feet. In general, the excavation consisted of the removal of two feet of sand cover over the municipal landfill, and an additional two foot excavation into the landfill material. All drums were present in the cover material only.

Excavated soil cover and landfill materials were stockpiled on two layers of polyethylene sheeting on top of the municipal landfill.

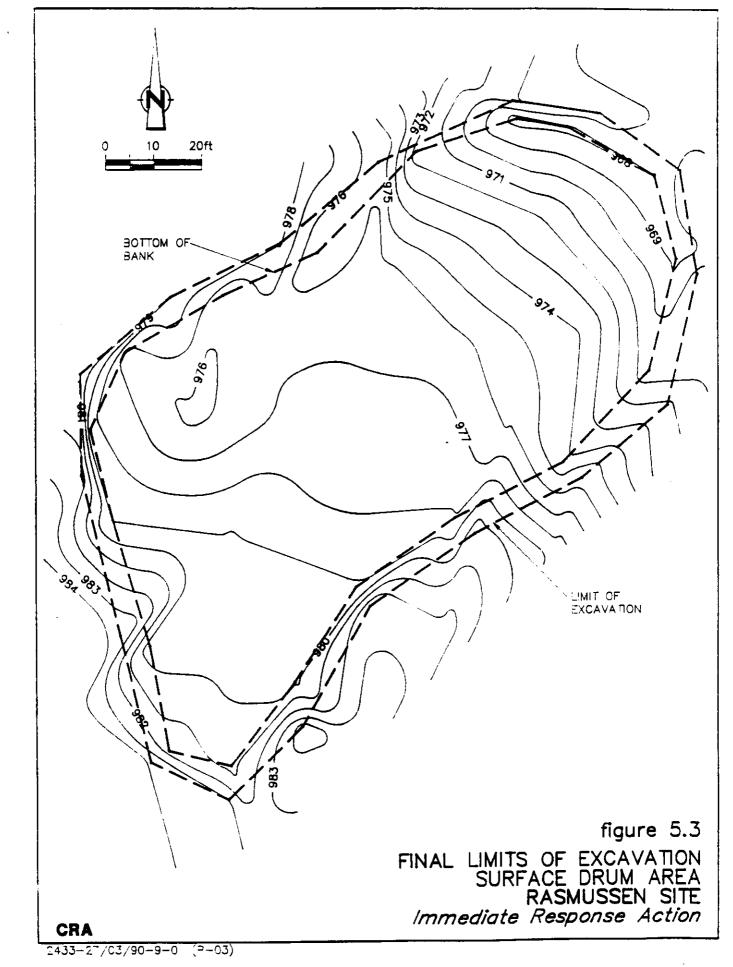
Excavation of the SD Area was completed on January 23, 1990. The USEPA OSC's on-Site representative and MDNR Project

Coordinator jointly inspected the excavation with the Engineer and approved all work as complete in the SD Area. Hughes surveyed the completed excavation on January 24, 1990. The horizontal limit and base of excavation contours for the SD Area are shown on Figure 5.3.

5.2.2 Drum Removal - SD Area

A total of 158 containers were excavated from the SD Area. Seven containers were 5-gallon paint cans, thirty-nine containers were 30-gallon drums and the remainder were 55-gallon drums. Twenty-seven of the drums were empty. A complete summary of all drums excavated from the SD Area is presented on Table 1 in Appendix D.

Similar to the NEBD Area, drums excavated from the SD Area were generally crushed and in very poor condition. Only two drums contained any liquids. All excavated containers were transferred to the drum staging pads.



5.3 INDUSTRIAL WASTE AREA

5.3.1 Excavation and Drum Removal - IW Area

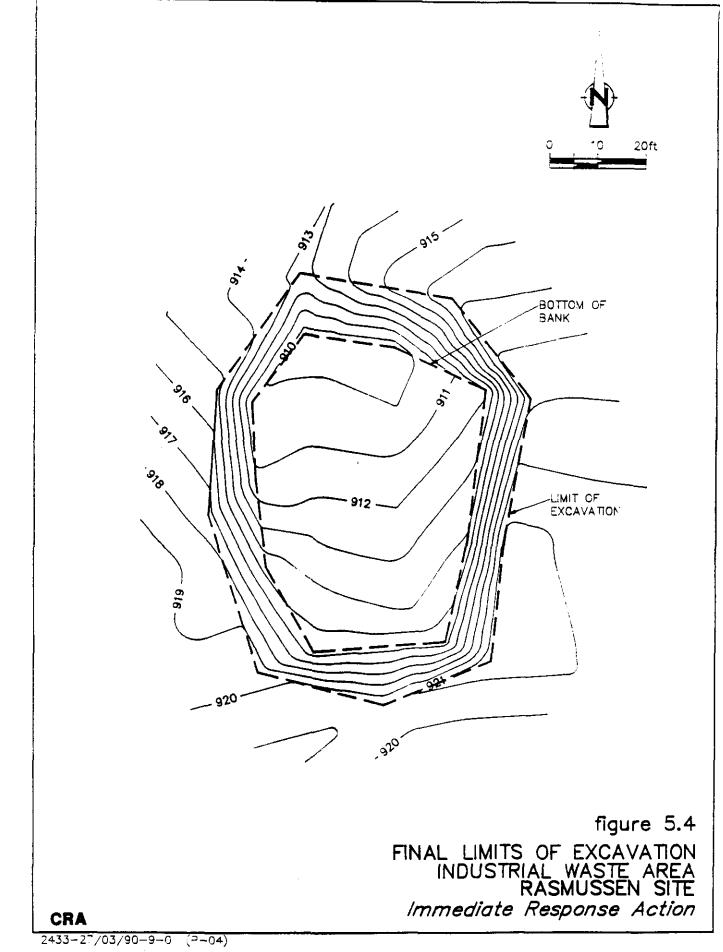
Excavation of the IW Area commenced on January 23, 1990 in the area of highest magnetic anomaly as determined by the RI. Pre-excavation conditions at the IW Area are shown on Figure 4.3.

The IW Area consisted of a sandy knoll in an area remote from the municipal landfill. No municipal landfill or other debris was encountered during the excavation. The excavation continued within the limits of excavation to a depth where no additional containers were encountered and native sand was present.

The USEPA OSC's on-Site representative approved the limits of the completed excavation on January 25, 1990. Hughes surveyed the IW excavation on January 26, 1990. The limit of excavation and base of excavation contours are shown on Figure 5.4.

All excavation work stipulated by the 106 Order was completed by January 25, 1990.

A total of 186 containers were excavated from the IW Area. One 5-gallon paint can and one hundred eighty-five 55-gallon drums were excavated from the IW Area. As for the other areas, most containers were crushed and in poor condition. The drums contained solids only. A



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complete drum log summary for all drums excavated from the IW Area is presented on Table 1 in Appendix D.

5.3.2 Additional Excavation in IW Area

On January 23, 1990, during a Site inspection by the MDNR, the Engineer was requested by the MDNR Project Coordinator to excavate an area located to the south and outside the limits of the IW Area. The MDNR's request was based on their belief that buried containers were present below a portion of a mounded soil area to the south of the IW Area due to the presence of metallic debris on the ground surface. The MDNR also indicated that they believed buried containers may be present between the mound and the southern limit of the excavation area.

A review of the data contained within the RI indicated that the magnetometer survey encompassing this area provided no basis for suspecting buried containers.

Although the Respondents did not agree with the basis for the MDNR request, they undertook the excavation of this additional area in order to resolve the matter in the most expedient manner possible. The Respondents presented their comments and intentions to the USEPA OSC by letter on January 26, 1990 (Monteith to O'Mara).

The excavation of the knoll adjacent to the IW commenced and was completed on January 26, 1990. No containers were found and the knoll was found to consist of sand only. USEPA's on Site representative witnessed the excavation. Photographs of the excavation are provided in Appendix B.

5.4 ADDITIONAL VOLUNTARY EXCAVATION

Following completion of all excavation activities stipulated in the Work Plan, the Respondents notified the USEPA OSC on January 26, 1990 of their desire to voluntarily undertake additional excavation in an area west of and contiguous to the NEBD Area.

The Respondents believed that buried containers may have been present in this area. This assumption was based on the following:

- Although the MDNR's magnetometer survey failed to encompass the suspect area, the consistency of the field findings compared to the magnetometer surveys indicated that had the magnetometer survey extended into this area, the resulting magnetic gradient contours would have indicated the potential presence of buried containers.
- ii) Buried containers were present in the west face of the cut slope during the excavation of the NEBD Area. These containers were visible in the fill material overlying the landfill wastes and appeared to be located in

the approximate vicinity of the highest magnetic gradient contour values along the west excavation limit.

The proposed excavation was to be conducted in the fill material overlying the municipal landfill materials.

The USEPA OSC and the Engineer witnessed the excavation of the area on January 29, 1990. Seven drums and numerous drum lids were excavated from this additional voluntary excavation area.

One drum contained solids whereas the other six drums were empty. A description of the drums is presented on Table 1 in Appendix D.

This excavation was also backfilled on January 29, 1990 following agreement by the Engineer and the USEPA OSC that all containers had likely been removed from the area.

5.5 BACKFILLING OF EXCAVATED AREAS

Backfilling of the combined NEBD Area commenced on January 12, 1990 and was completed on January 16, 1990. Two rubber-tired loaders transferred soil and landfill material, previously excavated from the NEBD Area, from stockpiles adjacent to the excavation and from the top of the municipal landfill. Due to spatial constraints adjacent to the excavation

area, a second stockpile area had been established on top of the municipal landfill. The backfilled surface of the NEBD Area was graded to promote drainage and minimize the potential for erosion. The straw bale dike installed at the base of the excavation was left in place to contain sediments during spring runoff.

Soil and landfill materials, excavated from the SD Area and stockpiled on top of the municipal landfill, were used for backfill material. Two rubber-tired loaders replaced and compacted the excavated soil and landfill material to approximate pre-excavation conditions in the area. However, the former knoll at the southern limit of the SD Area was not reconstructed. The backfilled surface was graded and crowned to minimize ponding and to promote surface water drainage. All backfill operations at the SD Area were completed on January 25 and January 27, 1990.

Sand excavated from the IW Area and stockpiled adjacent to the excavation was backfilled on January 27 and 28, 1990. The additional excavation at the IW Area requested by MDNR was also backfilled at this time. The voluntary excavation of the area contiguous to the NEBD Area was backfilled following excavation on January 29, 1990.

6.0 SAMPLING AND WASTE CHARACTERIZATION

6.1 DRUM SAMPLING

6.1.1 General

All drums from the three excavation areas were staged in sequential order on the on-Site staging pads prior to sampling. In order to expedite receipt of analytical data and the generation of wastestream profile information for disposal purposes, drum sampling was conducted on three occasions. Sampling was conducted as sufficient numbers of drums were staged to warrant mobilization of sampling personnel and equipment.

The initial sampling phase was completed on January 6, 1990. Sampling of all drums excavated from the NEBD Area (Drums designated RAS 001-300) was completed on January 12, 1990. All remaining drums were sampled between January 26 and January 29, 1990 following completion of all excavation activities.

A total of 651 containers were excavated from the NEBD, SD and IW Areas. Forty-seven of the containers were 5-gallon cans whereas forty-one of the containers were 30-gallon drums. The remainder of the excavated containers were 55-gallon drums. During secondary inspection of the containers on the staging pads prior to sampling, one hundred and fifty (150) of the containers were determined to be empty as defined by RCRA (less than 2 inches of residue).

Four drums which were overpacked each required an additional overpack drum to contain soil and waste material spilled from the original damaged drums at the excavation. Drums RAS 090A, 220A, 224A and 392A were overpacked. Drums RAS 090B, 220B, 224B and 392B were new overpack drums containing only soil and waste material recovered from the excavation area directly associated with the original drum. A complete drum log summary is presented on Table 1 of Appendix D.

6.1.2 Sample Collection and Handling

Most drums excavated from the NEBD, SD and IW Areas were crushed or ripped and generally in very poor condition. The majority of drums were open top type with no lids. Representative samples were obtained from these drums with no requirement to physically cut open or otherwise remotely access the drums. For drums where access to solid contents was limited, a pneumatic chisel was used to cut away a section of the steel drum to expose the drum contents.

Sampling personnel were equipped with USEPA Level C PPE, as presented in Section 8.0, during all sampling activities. All drums had previously been screened with an organic vapor analyzer at the excavation. Cold weather and windy conditions minimized the potential for elevated TVOC concentrations in the breathing zone during sample collection. The Site Safety Officer monitored air quality and the general progress of sampling

to ensure activities were in accordance with the Site Specific Health and Safety Plan presented in Section 8.0.

Samples were collected using a new disposable stainless steel laboratory scoopula for each sample. Drum contents were placed directly in prelabeled 500-ml glass sample jars with teflon lined lids. Sampling personnel wore a new pair of latex gloves for each sample collected.

A total of 504 samples were collected during the January sampling events. Four hundred and ninety-nine (499) of the samples collected contained solids. Upon arrival at the analytical laboratory, three of the samples had separated into a solid and liquid phase. Each phase of the biphase samples were analyzed as discrete samples. Five of the samples collected were liquids. Liquid samples were obtained by grab sampling.

Sample jars were packed in coolers with vermiculite packing material and ice to maintain a transport temperature below 4°C. Samples were generally in a frozen state prior to shipment. Samples were shipped by courier to the analytical laboratory (Wadsworth-Alert) using standard chain-of-custody protocols. All coolers had security seals placed on the lids to ensure that coolers had not been tampered with during transport. A copy of all completed chain-of-custody forms is included in Appendix E.

A list of all containers sampled and submitted for waste characterization analyses is presented on Table 2 in Appendix F.

6.2 ANALYTICAL RESULTS

6.2.1 Waste Compatibility Analytical Results

All analytical services for waste compatibility testing was performed by Wadsworth-Alert Laboratories (laboratory) of Canton, Ohio under the supervision of the Contractor. Each sample submitted to the laboratory was initially screened using the following waste compatibility tests:

- i) Radioactivity screen;
- ii) pH;
- iii) Oxidizer/Peroxide screen;
- iv) Water mix screen;
- v) Cyanide screen;
- vi) Phenol screen; and
- vii) Flammability screen.

The laboratory also recorded the color and physical description of each sample. A complete description of the drum contents is presented on Table 1 in Appendix D. Complete waste compatibility results are presented on Table 2 in Appendix F.

Compatibility testing revealed that no radioactive, cyanide, oxidizer, peroxide, sulfide or phenol wastes were present in the drums. All drum contents had pH in the range of 6 to 8 except for three

drums (RAS 221, 228, 277) which had a pH of 12 or greater. No strong acids (pH<4) were present in any of the drums. Preliminary flammability screens indicated that approximately half of the drums may have flammable contents. However, a positive result for the flammability screen does not indicate that the drum contents are ignitable at a given temperature. The flammability screen involved placing the flame from a Bunsen burner in contact with the waste material. A positive flammability screen was recorded if ignition occurred following this screening procedure.

6.2.2 PCB Analytical Results

Following completion of waste compatibility analyses, samples were grouped into 5-sample composites and the resulting composite sample was analyzed for total PCB. Composite samples (identified as RASCØØ) were developed by combining five compatible samples, as determined from waste compatibility results. All compositing was performed by the laboratory.

A list of samples composited and corresponding sample composite numbers are presented on Table 3 in Appendix G. The PCB composite sample number relevant to each drum has also been identified on Table 2 in Appendix F. PCB concentrations reported for each drum, as shown on Appendix F, Table 2, represent the concentration of PCB in the corresponding PCB composite sample and are not an indication of PCB concentration in each individual drum.

Twenty-eight of the 101 PCB composite samples contain PCB at concentrations of less than 8 ppm. Based on a five drum composite, 8 ppm would indicate that no individual drum for that composite exceeds 40 ppm PCB thus maintaining a 10 ppm buffer below the 50 ppm TSCA regulated concentration for PCB.

The complete PCB analytical reports from the laboratory are presented in Appendix G.

6.2.3 Wastestream Development

Following review of the waste compatibility and PCB analytical results, four wastestreams for the drummed wastes were developed as follows:

Wastestream 1: Basic solids/PCB (Drums RAS 221, 228, 277)

Wastestream 3: Paint solids/PCB (357 drums as noted on Table 2 in Appendix F.)

Wastestream 4: Inert solids/empty crushed drums/PCB (140 drums as noted on Table 2 in Appendix F.)

A composite sample for each wastestream was prepared by the laboratory and shipped to the Chemical Waste Management Technical Center Analytical Laboratories in Riverdale, Illinois (CWM Technical Center).

The CWM Technical Center performed a detailed analysis of each wastestream as required by the proposed disposal facilities. Copies of the waste profile sheets for each wastestream, as prepared by the Contractor, and detailed analytical results as reported by the CWM Technical Center are included in Appendix H.

6.3 DISPOSAL DECISIONS

Final disposal decisions were not reached until June 21, 1990 due to difficulties associated with the approval of combined RCRA/TSCA wastestreams by the disposal facilities. As previously discussed, written notification of the proposed disposal facilities was provided to USEPA by the Respondents. Approval was given by USEPA on June 19, 1990 for all proposed facilities. The disposal facilities utilized include: Kettleman Hills Treatment Center (CWM) Kettleman City, California CAT000646117 (Landfill for: Wastestream 1 - Waste Solids Wastestream 3 - Paint Solids Wastestream 4 - Inert Solids and RCRA Empty Drums)

- CWM Chemical Services Inc. Chicago, Illinois ILD000672121 (Incinerator for: Wastestream 2 - Flammable Liquids)
- CyanoKEM, Inc.
 Detroit, Michigan
 MID098011992
 (Treatment for: Decontamination Washwater)

7.0 TRANSPORTATION AND DISPOSAL

7.1 <u>GENERAL</u>

Following USEPA approval of the proposed disposal facilities, work related to the transportation and disposal of staged material commenced on June 27, 1990. Appropriate provisions of the Health and Safety Plan were maintained during the transportation and disposal phase of the program.

In addition to the packaging, transportation and disposal of all containers excavated from the three areas, all drums left in the vicinity of the support zone which were generated during previous investigations by MDNR, were all appropriately disposed. Drums containing used PPE were disposed with the bulk solids. Monitoring well purge water was disposed with the decontamination washwater. Liquids other than well purge water were incinerated. Empty drums were crushed flat and disposed with the bulk solids. Details of the disposal of the decontamination washwater is presented in Section 10 - Project Closeout.

7.2 <u>PACKAGING</u>

The three drums comprising Wastestream 1 - Waste Solids (Drums 221, 228 and 277) were segregated from the remaining drums, placed in 85-gallon overpack drums and labeled as a corrosive waste. The

receiving disposal facility for this wastestream (Kettleman Hills) required this material to be disposed in drums.

Drums containing flammable liquids (Wastestream 2) were also segregated. Liquids were pumped from the drums into 16-gallon polyethylene incinerable drums. Liquids were stabilized in the 16-gallon containers with shredded corn cob prior to shipment. These containers were labeled as flammable liquids.

All remaining drummed material (Wastestreams 3 and 4) were physically removed from the original containers into one of three roll-off boxes brought to the Site specifically for this purpose. In many cases, the steel drum had to be cut away from the drum contents with a pneumatic chisel. Following removal of the drum contents, all drums were crushed flat. All polyethylene sheeting and used PPE was included in this wastestream. Bulked material was staged in the roll-off boxes prior to loading of the transport vehicles.

7.3 TRANSPORTATION AND DISPOSAL

The three overpacked drums comprising Wastestream 1 -Waste Solids, were transported to Kettleman Hills on July 19, 1990 by Chemical Waste Management Transportation Services. The total weight of the drums was estimated to be 975 pounds. The three drums were received

and accepted by the disposal facility on July 29, 1990. A copy of the completed hazardous waste manifest is provided in Appendix I.

Flammable liquids (Wastestream 2) were packaged into thirty-seven 16-gallon incinerable drums and transported to the CWM Chicago Incinerator on August 3, 1990 by CWM Transportation Services. The total volume was estimated to be 592 gallons. The 37 drums were received and accepted by the disposal facility on August 6, 1990. A copy of the completed hazardous waste manifest is provided in Appendix I.

The bulk solid wastes (Wastestreams 3 and 4) were transported to the Kettleman Hills landfill in by Jack Gray Transport. A total of 128 tons of material was shipped in six dump trailers. Five loads were shipped on July 24, 1990 and the sixth load was shipped on July 27, 1990. The shipments were received and accepted by the disrosal facility on July 28 and July 31, 1990. Copies of the six completed haza: dous waste manifests are provided in Appendix I.

8.0 HEALTH AND SAFETY

8.1 <u>GENERAL</u>

A Site-Specific Health and Safety Plan for the Immediate Response Action at the Rasmussen Site was developed by the Contractor which addressed the basic requirements stipulated within the Work Plan for the Site. The Site-Specific Health and Safety Plan, contained in Appendix J, provided for a safe and minimal risk working environment for all on-Site personnel. The plan also provided for emergency response procedures and corrective procedures based on the results of Site perimeter air monitoring. The Contractor provided a Site Safety Officer who was responsible for the implementation of the health and safety plan. Details of the perimeter air monitoring programs are presented in Section 9.0. The Contractor's Final Health and Safety Report for the program is presented in Appendix K. Daily health and safety reports including real-time air monitoring data are provided in Appendix L.

8.2 <u>CONTINGENCY PLANNING</u>

Prior to commencing work involving the excavation or handling of drums, the Contractor developed an off-Site emergency contingency plan. The plan provided guidance for immediate response to a serious Site occurrence such as explosion, fire or migration of significant

quantities of toxic or hazardous material from the Site into adjacent public areas.

A coordination meeting was held at the Site on December 8, 1989 with representatives from local fire, police and emergency response personnel. Topics covered at the meeting included:

- i) evacuation of adjacent areas,
- ii) fire fighting procedures,
- iii) transport of injured personnel to medical facilities,
- iv) priority transportation routes, and
- v) coordination and/or modification of highway operations.

A list of emergency phone numbers was provided at each telephone with a map indicating the shortest route to emergency medical facilities.

No emergencies arose at the Site during the course of the project which required the implementation of the off-Site contingency plan.

Fire fighting equipment (extinguishers) were maintained in strategic locations at the Site to combat localized fires. The locations were marked by an appropriate and highly visible sign. The Contractor ensured that designated personnel were available whom were trained in fire fighting procedures and were equipped with self contained breathing apparatus for fighting fires involving chemical substances i^c required.

In the event of significant release of toxic or hazardous vapors from any container or excavation, the source of such vapors would have been immediately backfilled or covered with fill. Equipment operators were to utilize self contained breathing apparatus during such operations.

No fires or significant releases of toxic vapors occurred during removal activities.

8.3 ON-SITE TRAINING

The Contractor's Certified Industrial Hygienist and Site Safety Officer conducted a training program on Site for all Site personnel prior to commencing work within the Exclusion Zone. Thi, training program addressed the following topics:

a) Potential hazards,

- b) Biology, chemistry and physics of hazardous materials,
- c) Rights and responsibilities of workers under OSHA and additional legislation of the State of Michigan,
- d) Standard safety operating procedures,
- e) Types of monitoring equipment to be used.
- f) Site Specific Health and Safety Plan,
- g) Internal and External Communications,
- h) Medical surveillance program,

- i) **Personal protective clothing and equipment**,
- j) Respiratory equipment including training and qualitative fit-testing for full facepiece respirators and use of self contained breathing apparatus,
- k) Air monitoring program,
- l) Decontamination procedures,
- m) Evacuation, first aid and emergency procedures dealing with fire and medical situations,
- n) Work zones established at the Site,
- Safe work practices associated with employee's work assignment, including dust control measures, hazardous materials recognition, and use of buddy system,
- p) Basic operational safety, emphasizing hazards expected on Site, and
- q) Prohibitions while working inside Exclusion and Contaminant
 Reduction Zones, including:
 - i) Glasses or facial hair, such as beards and long sideburns, which interfere with respirator fit,
 - ii) Contact lenses,
 - iii) Eating, drinking, smoking, chewing in the Exclusion or Contaminant Reduction Zone,
 - iv) Personal articles, e.g. watches, rings, etc., and
 - v) Working when ill.

All personnel assigned to the Site received safety and health training, and upon completion of training completed a Training Acknowledgement Log. The Training Acknowledgement Logs included the following information:

- a) Employee or visitor's name.
- b) Verification of topics covered, including:
 - i) Materials used,
 - ii) Equipment demonstration,
 - iii) Hands-on equipment practice for each employee,
 - iv) Prohibitions covered,
 - v) Buddy-System Explanation, and
 - vi) Standard Operating Procedures.
- c) Date and Signature.

There were daily safety training sessions conducted by the Site Safety Officer. The purpose of this training was to reinforce the proper procedures, to correct any deficiencies noted in the safety and health program, and to prepare the workers for any change in the health and safety program due to changes in the operations or unanticipated problems.

All visitors who entered the Contaminant Reduction Zone or Exclusion Zone were also required to undergo a training program conducted by the Site Safety Officer. The training consisted of:

- 1) Hazards present at the Site.
- 2) Effects of these hazards.
- Progress of work and the relationship of the present work in regard to the type of hazards that may be encountered.
- 4) Emergency signals and procedures.

- 5) Type and limitations of personal protective equipment in use.
- 6) **Proper use of protective equipment.**
- 7) General safety rules and policies in effect at the Site.
- 8) Completion of a Training Acknowledgement Log.

In addition to the on-Site training provided, all workers and visitors were required to have completed a 40-hour health and safety training course in accordance with 29 CFR 1910.120.

8.4 PERSONAL PROTECTIVE EQUIPMENT

All personnel on Site were required to wear the following protective clothing for all Site work during mobilization/demobilization and outside the designated exclusion zone:

- a) hard hats;
- b) steel toe and shank workboots;
- c) eye protection (if applicable);
- d) hearing protection (if applicable); and
- e) protective outer clothing.

Within the exclusion zone, all personnel were required to wear the following USEPA Level C PPE in addition to the protective clothing identified above:

- a) disposable polycoated tyvek coveralls;
- b) rubber overboots;
- c) inner latex gloves;
- d) outer nitrile gloves (cotton gloves for operators); and
- e) full facepiece respirator with dual organic vapor and particulate cartridges.

Gloves and boots were secured to the disposable coveralls with duct tape.

Personnel involved in drum handling operations at the point of excavation were equipped with USEPA Level B PPE including a supplied air respiratory system.

9.0 PERIMETER AIR MONITORING PROGRAM

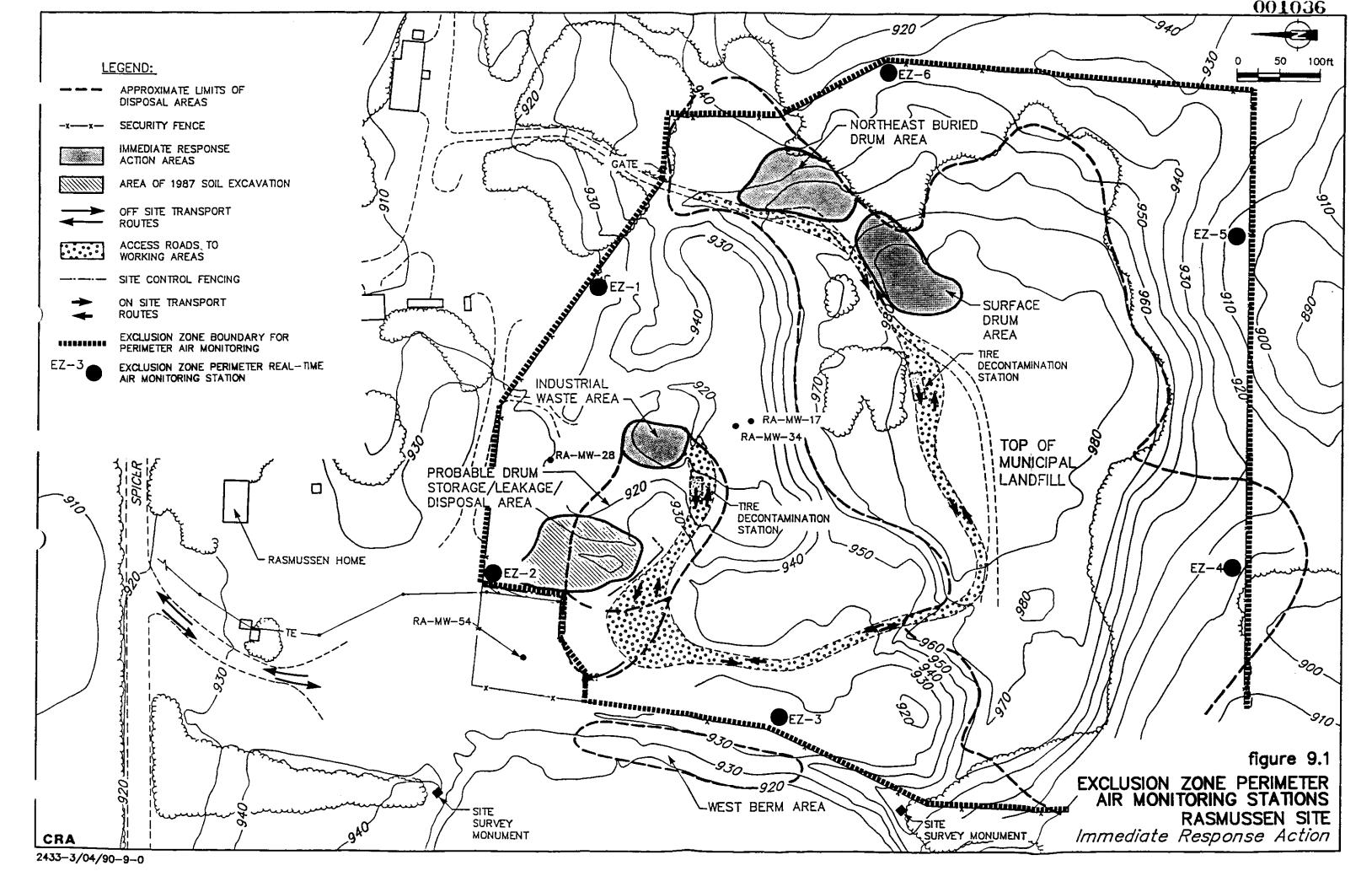
9.1 <u>GENERAL</u>

Perimeter air quality was monitored at the Rasmussen Site by conducting two independent air monitoring programs. The Contractor's Site Safety Officer completed real-time air monitoring at the exclusion zone perimeter for explosive gases, oxygen levels and total volatile organic compounds (TVOC). CRA conducted a compound-specific air monitoring program at the Site perimeter. Details and results of each program are provided in the following sections.

9.2 REAL TIME AIR MONITORING PROGRAM

Real-time air monitoring was conducted at six stations distributed around the exclusion zone perimeter at the Site. Locations of the **exclusion zone** perimeter air monitoring stations are shown on Figure 9.1.

Initially, TVOC concentrations were monitored and recorded at each of the six exclusion zone perimeter monitoring locations on an hourly basis during periods of active excavation or backfilling. Following completion of excavation activities at the NEBD Area, TVOC air monitoring data generated from December 13, 1989 to January 10, 1990 was reviewed by CRA and USEPA/MDNR. The maximum TVOC concentration recorded at the exclusion zone perimeter during this period was 0.8 ppm at monitoring



station EZ-6 on December 21, 1989. In general, TVOC concentrations at the exclusion zone perimeter were 0 ppm.

In response to a request from CRA on January 11, 1990, USEPA agreed that the monitoring frequency at the exclusion zone perimeter could be reduced to two monitoring rounds per day. A confirming letter on this modification to the Work Plan was sent by CRA to USEPA (Monteith to O'Mara) on January 12, 1990.

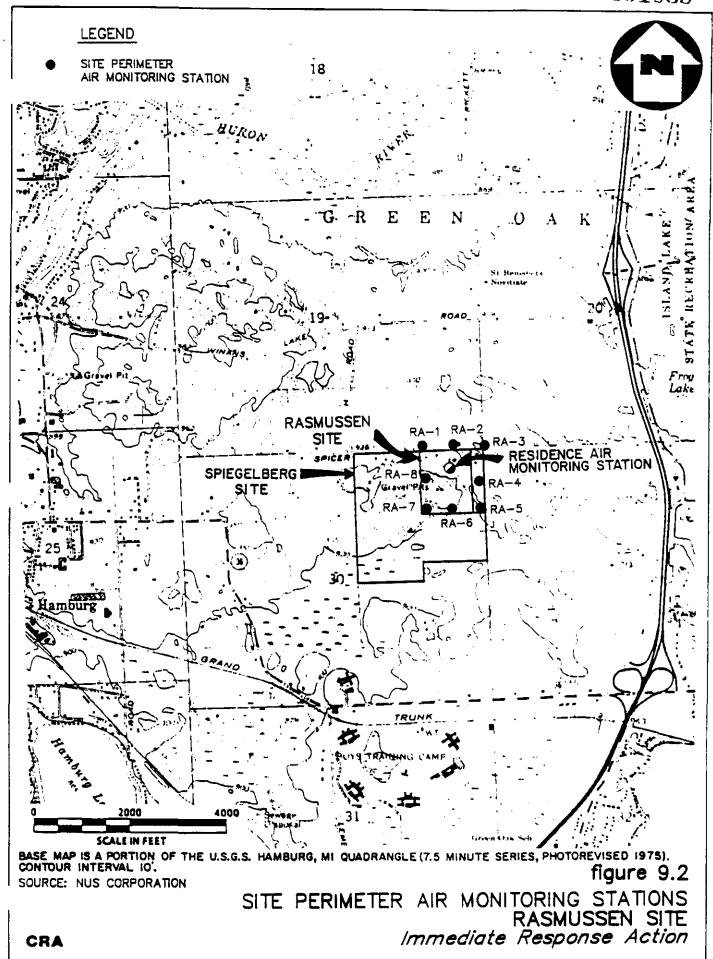
Twice daily monitoring continued at the exclusion zone perimeter from January 11, 1990 to January 22, 1990. On January 22, 1990, the compound specific air monitoring program, as discussed in Section 9.3, was placed on "standby". A letter confirming this modification to the Work Plan was sent by CRA to USEPA (Monteith to O'Mara) on January 24, 1990. The MDNR requested that, as a condition for reduction of the compound specific program, the real-time perimeter air monitoring be increased from two to four rounds daily. To comply with the MDNR request, real-time exclusion zone perimeter air monitoring was increased from two to four rounds per day until the conclusion of excavation and backfill activities.

In addition to TVOC readings, the Contractor monitored and recorded oxygen content and % LEL at each station on a regular basis. All readings for oxygen content and explosive gases were at background levels throughout the program. Complete results of the real time air monitoring program are presented in Appendix L.

9.3 COMPOUND SPECIFIC AIR MONITORING PROGRAMS

In addition to the real time air monitoring program described in the previous section, compound specific air sampling was conducted using the TO-1 and TO-10 methods as described in the Health and Safety Plan. Sampling stations were established on the perimeter of the Site, with an additional station established adjacent to the Site residence. Stations were located with the concurrence of USEPA OSC (see Figure 9.2). Air sampling standard operating procedures, protocols, chain-of-custody forms, and analytical results are presented in Appendix M.

Compound-specific air samples were collected daily at three locations: one upwind Site perimeter station, one at the residence station, and one downwind Site perimeter station. DuPont Alpha-1 sampling pumps were calibrated before and after each sampling event against a primary standard using a flow rate specified for the individual sampling methodology employed (11 cc/min for TO-1, 50 cc/min for TO-10). Flow rates were specified in the approved Health and Safety Plan. TO-1 methodology involved collection of samples on two Tenax filled sorbent cartridges connected in series (primary and backup). TO-10 methodology involved collection of samples on polyurethane foam (PUF) cartridges with a glass fiber particulate prefilter installed ahead of the PUF cartridge. After sample collection, samples were sent under chain-of-custody to the Illinois Institute of Technology Research Institute (IITRI) for analysis. Analytes analyzed for by TO-1 methodology were: benzene, chloroform, methylene chloride,



2433-3/04/90-9-0

tetrachloroethene and trichloroethene. TO-10 methodology was used to analyze for the presence of polychlorinated biphenyls (PCBs); vapor phase PCB to be collected on the PUF cartridge, particulate bound PCB to be entrapped by the glass fiber filter. The following subsections summarize the individual phases of the compound-specific air sampling program.

Documentation of modifications to the compound-specific air sampling program, as approved by USEPA, are provided in Appendix A.

9.3.1 <u>Background (Baseline) Air Sampling</u>

Background sampling to establish baseline air quality was conducted for three days prior to the initiation of active excavation work (December 10-12, 1989) for both Method TO-1 and TO-10. Samples were obtained for a minimum of eight hours on each day. During this time, either no work took place, or work consisted of site-preparation activities conducted in clean areas only.

With the exception of trace amounts of benzene detected at the upwind sampling station (7.93 μ g/m on 12/11/89 and 9.06 μ g/m on 12/12/89), all other results obtained by TO-1 sampling were below detection limits. Both of these positive detections may be attributed to vehicular activity; the upwind sampling station employed on these dates is immediately adjacent to Spicer Road. Results obtained by TO-10 ranged from

a low of 307 µg/m on 12/10/89 to a high of 1,521 µg/m on 12/12/89. However, these results are deemed to be false positives and may be attributable to phthalate contamination of the sampling media (memo of January 10, 1990 Dempsey to Eng, and letter dated January 19, 1990 Monteith to O'Mara). Results from all baseline air sampling appear in Table 2 for Method TO-1 and Table 3 for Method TO-10 in Appendix M.

9.3.2 Initial (Active Excavation) Air Sampling

Excavation activities commenced on December 13, 1989 in the NEBD Area. Sampling was conducted from this date to January 19, 1990, when the compound specific program was placed on a "standby" status. On each day that active excavation took place, sampling was conducted to cover those hours that work was performed. The results of this sampling are presented in Table 2 for TO-1, and Table 3 for TO-10 in Appendix M.

Based on the analytical data from the compound-specific air sampling program, there was no significant degradation of the air quality at the Site perimeter or at the residence. Based on this fact, the Respondents formally requested to USEPA that the compound-specific air sampling program be terminated after the sampling event of January 19, 1990 (letter dated January 19, 1990, Monteith to O'Mara). Prior discussions with USEPA/MDNR led to the agreement that the TO-10 program would be terminated, but the TO-1 program would be placed on a "standby" status; to be reactivated should real-time air monitoring results indicate that a mutually

agreed upon "trigger" level had been exceeded. Subsequent real-time monitoring identified that the "trigger" level was never attained.

10.0 PROJECT CLOSEOUT

Demobilization activities commenced following the removal of staged material from the Site and included:

- i) Decontamination of all tools, roll-off boxes and heavy equipment;
- ii) Removal of all temporary facilities;
- iii) General Site cleanup; and
- iv) Transportation and disposal of decontamination washwater.

A sample of decontamination washwater was collected and submitted to Wadsworth-Alert Laboratories of Canton, Ohio for the following analyses:

- i) Volatile organic compounds,
- ii) Semi-Volatile organic compounds,
- iii) Metals,
- iv) PCB; and
- v) pH.

The analytical report for the washwater is presented in Appendix N. PCB was not detected in the washwater and only low level VOCs were detected. CyanoKEM Inc. of Detroit, Michigan was approved by USEPA as a disposal facility for the washwater. A total of three shipments of washwater were transported to CyanoKEM by Metropolitan Environmental (INT190010397). Two shipments were made on July 5, 1990 (5,000 and

4,000 gallons) with the final 1,000 gallons made on August 20, 1990. Copies of the manifests for the washwater are presented in Appendix N.

All demobilization activities were completed on August 20, 1990. The Site was secured by the existing fence following demobilization.

All of Which is Respectfully Submitted, CONESTOGA-ROVERS & ASSOCIATES

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James W. Archibald, P. Eng.

585 2

Clifford Eng, P. Eng.

Bruce Monteith, P. Eng.

APPENDIX A

4

GENERAL CORRESPONDENCE

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5HS-11/EERB

NOV 16 1989

Bruce Monteith, P. Eng. Conestoga-Rovers & Associates Limited 651 Colby Drive Waterloo, Ontario, Canada NZV 1C2

RE: Rasmussen Dump Removal Action, Green Oak Township, MI Work Plan Amendments

Dear Mr. Monteith:

I am writing to memorialize what we discussed during our November 6, 1989 meeting regarding the Rasmussen Dump work plan. At that time, we discussed several changes that would be made to the work plan. These changes were confirmed during our telephone conversation on November 9, 1989 and are listed below.

Maureen O'Mara will be the U.S. EPA Project Coordinator during the Rasmussen removal activities. All documents shall be sent to :

Maureen O'Mara (5HS-11) On-Scene Coordinator U.S. EPA, Region V 230 S. Dearborn Street Chicago, IL 60604 (312) 886-1960

As discussed, the real-time air monitoring must be increased in frequency during the excavation. The area to be monitored should be concentrated around the excavation area since real-time results will be used to establish the level of respiratory protection to be worn on site.

Due to the variety of organic compounds previously detected and the limitations of the HNU, the action levels specified in the work plan may not provide an adequate level of protection. The U.S. EPA currently uses a set of action levels outlined in Standard Operating Safety Guides which are more stringent than those listed on page 30 of the work plan. These action levels are listed below and are to be followed on the Rasmussen site in accordance with U.S. EPA safety standards.



Total Organic Vapor Concentration Above Background (ppm)

Level of Respiratory Protection Required

0-5

5-500

Full face air purifying respirator (Level C)

Supplied air system (Level B)

On page 45 of the plan, Level B requirements have been excluded in the listing of safety equipment and should be added. We also request that a table be prepared which specifies the anticipated level of protection for each activity to be performed. The OSC and Site Safety Officer will evaluate any changes in the specified levels of protection once site activities have commenced.

Results from the compound specific air monitoring will be reported within 48 to 72 hours of the sampling period to the U.S. EPA OSC and MDNR Project Coordinator. Due to lack of daylight during the winter months, the compound specific air samples will be collected during working hours instead of the full 24 hour period specified in the work plan.

A schedule of work should be prepared with a tentative completion date as soon as possible. The meeting to discuss the contingency plan with local authorities shall include the On-Scene Coordinator and the Livingston County Emergency Planning Committee Chripperson:

> Ted Westmyer 204 Hylander Howell, MI 48843 (517) 546-3520

If you have any questions, please feel free to contact me.

Sincerely,

Manneen A'Mara

Maureen O'Mara On-Scene Coordinator

CC: Denise Gruben Steve Nadeau Clifford Eng



3 0 NOV 1989

5HS-11

Mr. Bruce Monteith Conestoga-Rovers & Associates Limited 651 Colby Drive Waterloo, Ontario, Canada NZV 1C2

Re: Rasmussen Dump Removal Action, Green Oak Township, MI Work Flan Amendments

Dear Mr. Monteith:

I am writing to memorialize the action levels which were established during a telephone conversation November 21, 1989 with Clifford Eng. These actions levels supercede those established in the previous letter to you. The action levels listed below are based on the knowledge of contaminants at the site, the Threshold Limit Values for the contaminants, the protection factor for full-face respirators, and the danger of physical hazards on-site.

الى الديني ، ويتبعده الاستومية متعامل الارتباب

Total Organic Vapor Concentration Above Background (ppm)	Level of Respiratory Protection Required
0-5	NO respiratory protection (Level D)
5 50	Full face air purifying respirator (Level C)
>50	Supplied air system (Level B)

An OVA will be used in conjunction with an HNU for air monitoring. Level B will be used during any drum handling activities, including excavation, overpacking, and sampling.

As requested by Clifford Eng, separate pumps will not be necessary for collection of particulate and gaseous PCBs. A glass fiber per-filter, used to collect particulate PCBs, will be mounted in front of the polyurethane foam surbent, used to collect gaseous PCBs. This method requires that only one pump is utilized at each sampling point for the collection or gaseous and particulate PCBs.

If you have any questions, please feel free to contact me.

Sincerely yours,

Maureen O'Mara On-Scene Coordinator

cc: Denise Gruben Steve Nadeau Clifford Eng

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December 5, 1989

Reference No. 2433

Ms. Maureen O'Mara On-Scene Coordinator, Rasmussen Site United States Environmental Protection Agency Region V, (5HS-11) 230 S. Dearborn Street Chicago, Illinois 60604

Dear Ms. O'Mara:

Re: Amendments To Work Plan Immediate Response Action Rasmussen Site, Livingston County, MI

We acknowledge receipt of your letters dated November 16 and November 30, 1989 regarding amendments to the Work Plan. Enclosed please find an amended Health and Safety Plan (HASP).

The Work Plan, with the exception of the HASP, has not been materially affected by the amendments. It is acknowledged that in all instances where "USEPA Remedial Project Manager" has been used in this document, the text shall read as "USEPA On-Scene Coordinator" as if written in full.

The amended HASP addresses all of the amendments requested by USEPA's letters. Changes to the document have been identified by underlining for ease of reference (additions only). Specific amendments include the following:

- i) Table 8.1 clarification of respiratory criteria for benzene
- ii) Section 8.0 change level at which APRs will be donned from 10 ppm to 5 ppm total organic vapor above background readings
 - reference to use of an OVA for real-time air monitoring
 - clarification of frequency of real-time air monitoring at excavation areas
 - clarification of respiratory protection when handling drums/containers
- iii) Section 13.0 addition of summary table for personal protective equipment (PPE) usage (Table 13.1)
- iv) Section 13.2 clarification of general exclusion zone activities - definition of Level B PPE

001052

December 5, 1989

Reference No. 2433

- 2 -

- v) Section 13.3 clarification of respiratory protection for drum/container handling
- vi) Section 18.2 differentiation between real-time work zone and exclusion zone perimeter air monitoring
- vii) Section 18.3 clarification of perimeter and "nearest residence" compound-specific air monitoring stations
 - modification of particulate PCB sampling procedures from filter cassettes to glass fiber prefilters for PUFs
 - modify sampling period to encompass working hours only
 - deletion of NIOSH 0600
 - modify reporting period for results from "48 hours" to "48 to 72 hours"

We will be forwarding the amended HASP to the remedial contractor (CWM) for them to amend their Site specific HASP accordingly. In light of the upcoming Contingency Planning Meeting and HASP briefing scheduled for this Friday, December 8, 1989, we request that you call us with any questions or comments at your earliest convenience.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Bruce A. Monteith, P. Eng.

BAM/gp/3 Encl.

cc: Denise Gruben (MDNR) Steve Nadeau (Dickinson, Wright) Linda Parker (Dickinson, Wright) PRC Distribution List CRA Distribution List



CONESTOGA-ROVERS & ASSOCIATES LIMITED 651 Colby Drive, Waterloo, Ontario, Canada N2V 1C2 (519) 884-0510

January 11, 1990

Reference No. 2433

ints • Tel

Ms. Maureen O'Mara On-Scene Coordinator, Rasmussen Site United States Environmental Protection Agency Region V, (5HS-11) 230 S. Dearborn Street Chicago, Illinois 60604

Dear Ms. O'Mara:

Re: Vertical Limit of Excavation - NEBD Area Rasmussen Immediate Response Action

This letter is to confirm discussions held on January 10, 1990 between yourself and Mr. Jim Archibald of CRA regarding the vertical limit of excavation in the NEBD Area. It is our understanding that the vertical limit of excavation in the south sector of the NEBD Area, referred to as "Area 1" in the Work Plan, need not extend to native soil and is deemed to be complete. The basis for this decision include the following:

- i) the depth to native soil is significantly greater than anticipated based on an exposed landfill excavation face in excess of 30 feet;
- ii) the relative numbers and locations of containers encountered to date have substantiated the findings that were indicated by the magnetic gradient contour map from the RI; and
- iii) the majority of containers encountered to date have been found in the fill material overlying the landfill wastes thereby substantiating the theory that the containers were deposited onto the landfill surface after the landfill operations ceased.

Based on discussions between Mr. Jim Archibald and Ms. Denise Gruben of the MDNR on January 10, 1990, the MDNR also agrees with the above decision.

001054

CONESTOGA-ROVERS & ASSOCIATES LIMITED Consulting Engineers

January 11, 1990

Reference No. 2433

- 2 -

Should you have any questions, please do not hesitate to contact us.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Bruce A. Monteith, P. Eng.

BAM/gp/5

cc: Denise Gruben (MDNR) Clifford Eng (CRA) Jim Archibald (CRA) PRC Distribution List



CONESTOGA-ROVERS & ASSOCIATES LIMITED 651 Colby Drive, Waterloo, Ontario, Canada N2V 1C2 (519) 884-0510

January 12, 1990

Reference No. 2433

001055

Ms. Maureen O'Mara On-Scene Coordinator, Rasmussen Site United States Environmental Protection Agency Region V, (5HS-11) 230 S. Dearborn Street Chicago, Illinois 60604

Dear Ms. O'Mara:

Re: Real-Time Perimeter Air Monitoring <u>Rasmussen Immediate Response Action</u>

This letter is to confirm discussions held yesterday (January 11, 1990), between yourself and Mssr. Jim Archibald and Clifford Eng of CRA regarding the real-time perimeter air monitoring.

As agreed, this monitoring can be reduced from the hourly monitoring frequency to two monitoring rounds per day. These two monitoring rounds will be selected at the Site Safety Officer's discretion and it is anticipated that one round will be conducted in the morning and one round in the afternoon. The monitoring rounds will coincide with periods of active work at the excavation areas. Real-time air monitoring at the excavation will remain unchanged.

USEPA has discussed the reduction with Robert Teoh of MDNR and MDNR agrees to the above.

Should you have any questions, please do not hesitate to contact us.

Yours truly,

CONESTOGA, ROVERS & ASSOCIATES

Bruce A. Monteith, P. Eng.

BAM/gp/6

cc: Denise Gruben (MDNR) Clifford Eng (CRA) Jim Archibald (CRA) PRC Distribution List Todd Teets (CWM-Enrac)



CONESTOGA-ROVERS & ASSOCIATES LIMITED 651 Colby Drive, Waterloo, Ontario, Canada N2V 1C2 (519) 884-0510

January 19, 1990

Reference No. 2433

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Ms. Maureen O'Mara On-Scene Coordinator, Rasmussen Site United States Environmental Protection Agency Region V, (5HS-11) 230 S. Dearborn Street Chicago, Illinois U.S.A. 60604

Dear Ms. O'Mara:

Re: Reductions In Compound Specific Air Monitoring Program Rasmussen Immediate Response Action

This letter is to confirm discussions held during the last week between yourself and Mr. Clifford Eng of CRA regarding proposed reductions in the compound specific air monitoring program.

As discussed with CRA, the Rasmussen Participating Respondents Committee (PRC) requests that the compound specific air monitoring program be terminated following the sampling event this Friday, January 19, 1990. We offer our evaluation of the compound specific air monitoring program conducted to-date to substantiate our position. This evaluation is presented below.

1. TO-1 Analytical Results

All preliminary TO-1 results available as of today are attached as Table 1 and Table 2. Table 1 contains the reported analyte mass for each of the specified volatile compounds including benzene, chloroform, methylene chloride, tetrachloroethene, and trichloroethene. Table 2 reports the results as a mass concentration per sample volume basis.

Review of Table 1 shows that the only positive detections to date have been for benzene and methylene chloride.

Elevated methylene chloride levels were reported on January 9, January 16 and January 17. Estimated positive detections were reported on December 10 through 12 and again on December 16, 1989. These estimated methylene chloride levels were below the calculated method detection limits and are thus not significant. The fact that methylene chloride was identified in all samples

Reference No. 2433

- 2 -

on January 9 clearly indicates that the source is likely laboratory-introduced contamination.

Based on the reported values for January 9, it is our belief that all reported positive detections of methylene chloride are laboratory artifacts and not site-activity related. It has been CRA's contention from the day that the MDNR proposed methylene chloride as an emission indicator chemical, that methylene chloride was not of concern and that any reported values could not be assigned any significance due to the prevalent use of this chemical in the laboratory environment. Clearly, the results show that such is the case.

Benzene was reported on December 11 and 12 during background sampling, on December 13, 19, and 20 during excavation of the NEBD Area, on January 3 during general construction activities, and on January 8 and 9 after resuming excavation of the NEBD Area. It is our belief that the results for December 11 and 12 and for January 3 are clearly attributable to other sources due to the Site activities conducted on these days. Based on the results for these days, background sources could result in benzene levels from 24 ng to 55 ng. Based on the result reported on January 9 for a duplicate sample, for which the result could not be confirmed by the duplicate station sample, it is our belief that benzene from other sources such as the laboratory could be upwards of 111 ng.

Considering the above, a review of Tables 1 and 2 indicates that the only days where there was a potential for benzene emissions from waste handling activities are December 13 and January 8.

On December 13, excavation of the NEBD Area was initiated late in the afternoon and only three hours of excavation were performed. The main activity that day involved intense machine activity in clearing the NEBD Area of brush and trees. In addition, vehicles were run along the Site road adjacent to the residence air monitoring station. It is our belief that the reported benzene detections were due to increased vehicular and machine activity.

The benzene detections reported for January 8 appear to be Site activity related. However, it should be noted that the levels are well within the range of levels believed attributable to vehicular activity. Consequently, these benzene detections are not significant.

Reference No. 2433

- 3 -

Based on the above evaluation, we do not believe that volatile emissions are of sufficient concern to warrant maintaining the TO-1 compound specific air monitoring program. Of the 17 days of waste excavation, handling, or backfilling operations in the NEBD Area for which complete or partial TO-1 results are available, only one day of monitoring indicates a potential for noticeable emissions away from the active excavation area. Even then, this potential emission is not significant.

It is our understanding that the MDNR is reluctant to terminate the TO-1 program based on their assumption that the potential for volatile emissions may be greater during activities in the Surface Drum and Industrial Waste (IW) Areas than in the NEBD Area. To evaluate this concern, we reexamined the information presented in Appendix N of the RI (Test Pit Memorandum) to determine if there was any valid basis for this concern. Our review of the available information indicates that the findings can be summarized as follows:

<u>Area</u>	<u>Test Pit ID</u>	Location of Readings	HNu <u>Readings</u>
NEBD Area	TP-10/TP-11	In Drums In Test Pit Breathing Zone Ambient Air	200 - 400 ppm 5 - 15 ppm
	TP-12	In Drums In Test Pit Breathing Zone Ambient Air	300 - 500 ppm 200 - 400 ppm 5 - 50 ppm
	TP-13	In Drums In Test Pit Breathing Zone Ambient Air	100 - 200 ppm 20 - 100 ppm

Reference No. 2433

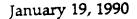
-4-

<u>Area</u>	<u>Test Pit ID</u>	Location of Reactors	HNu <u>Readings</u>
Surface Drum Area	TP-9	In Drums In Test Pa Breathing Zone Ambient Air	20 - 300 ppm 0 - 20 ppm 0 ppm
Industrial Wastes Area	TP-4	In Drums In Test Pit Breathing Zone Ambient Air	15 - 50 ppm 0 - 20 ppm

The above summary clearly indicates that the potential for volatile emissions from the Surface Drum and IW Areas are significantly reduced from that posed by the NEBD Area.

Based on the real-time monitoring data for the 17 days of active work in the NEBD Area and the two days of active work in the Surface Drum Area, it is our belief that the test pit findings are representative of the relative potential for emissions. Based on recorded hourly readings with an HNu/OVA at the active work zone to date, the highest readings for two consecutive hourly monitoring events at the NEBD Area has been a level of 6 ppm. The highest recorded single measurement at the work zone during the NEBD Area work was 10 ppm. By comparison, the readings at the active work zone during work in the Surface Drum Area for the last two days have been at background levels. It should be noted that excavation of the Surface Drum Area is now approximately two-thirds complete based on the work conducted during the last two days.

Given all of the above, we strongly believe that there is more than sufficient cause to terminate the TO-1 compound specific program.



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Reference No. 2433

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2. TO-10 Analytical Results

All preliminary TO-10 results available as of today are attached as Table 3. Table 3 contains both the reported analyte mass and the equivalent concentration in the sampled air volumes.

Review of Table 3 shows that there is no consistent trend between reported values for either PUFs or filters based on upwind and downwind results.

As discussed between USEPA and CRA, the positive detections were of concern despite the lack of reproducibility of the data. In order to confirm or dispute the presence of PCBs, several sample extracts were selected for confirmatory analysis by GC/MS instead of GC/ECD as specified by the TO-10 method.

All of the sample extracts selected for confirmatory analyses were reported as positive detections by GC/ECD. The selected extracts included an upwind sample from December 10, a downwind sample from December 11, a downwind sample from December 15 representative of some of the highest reported positive detections to date, and a method blank which exhibited the greatest activity to date.

The raw data as received from the laboratory (previously submitted) and our evaluation of the GC/MS results are presented in Attachment 1.

Based on our review, the only sample extract that could be determined to potentially contain PCBs was from the sample collected on December 15. The quantity of potential PCBs determined by GC/MS was reported as 4 ng. It should be noted that the corresponding duplicate sample collected at the same sampling station that day did not exhibit the same level of activity by GC/ECD. This finding leads us to believe that the reported potential PCB is not attributable to the Site activities. It should also be noted that the 4 ng reported by GC/MS is several orders of magnitude below the detection limit achievable by GC/ECD; thus the result is not significant.

Reference No. 2433

- 6 -

Based on our review of the GC/MS results, we believe that there have been no potential emissions of PCBs to date and that based on our foregoing discussion of potential emissions from the Surface Drum and IW Areas, and based on the winter conditions which precludes the volatilization of PCBs, we do not anticipate any potential for PCB emissions during the remaining work.

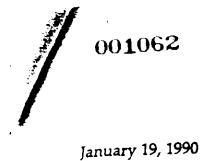
Given the above, we can find no justification for continuing the TO-10 compound specific program.

3. Proposed Program Reductions

Clearly, based on the foregoing discussions it is CRA's and the PRC'sposition that the compound specific air monitoring program should be terminated. It is our understanding that this is not mutually agreeable to the USEPA/MDNR but that a "standby" program may be approved. As discussed, this program would only apply to the TO-1 program; the TO-10 program would be terminated. The TO-1 "standby" program would require that CRA have Tenax sampling media available on Site to restart the TC-1 program on a reduced frequency basis if determined necessary by the Agencies. The criteria for restarting the program would be based upon an exceedance of a mutually agreed-upon real-time air monitoring reading in the active work zone.

Although we contend that complete termination of the compound specific air monitoring program is appropriate, CRA will implement this "standby" program if approval to terminate the program is not forthcoming.

Further to our discussions, we will assume that CRA may proceed with the "standby" program following January 19, unless notified otherwise. However, we still maintain that termination of the compound specific program is more appropriate.



CONESTOGA-ROVERS & ASSOCIATES LIMITED Consulting Engineers

Reference No. 2433

-7-

Should you have any questions regarding any of the above, please contact us at your convenience.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Co AFCARA \square

For Bruce Monteith, P. Eng.

BM/dvs/7

cc: Denise Gruben (MDNR) Clifford Eng (CRA) PRC Distribution List



January 24, 1989

Reference No. 2433

Ms. Maureen O'Mara On-Scene Coordinator, Rasmussen Site United States Environmental Protection Agency Region V, (5HS-11) 230 S. Dearborn Street Chicago, Illinois 60604

Dear Ms. O'Mara:

Re: Perimeter Air Monitoring Program Rasmussen Immediate Response Action

This letter is to confirm discussions held on January 22, 1990 between yourself and Mr. Clifford Eng of CRA regarding the perimeter air monitoring program.

As discussed with CRA, the "standby" compound specific air monitoring program presented in our letter dated January 19, 1990 is agreeable to both the USEPA and MDNR and is approved for implementation. It is our understanding the MDNR has requested that in conjunction with the "standby" compound specific program that the frequency of the real-time perimeter air monitoring program be increased to four rounds on a daily basis. As discussed, this is agreeable to us and will be implemented promptly.

Should you have any questions, please do not hesitate to contact us.

Yours truly,

CONESTOGA, ROVERS & ASSOCIATES

Bruce A. Monteith, P. Eng.

BAM/ec/9

c.c. Denise Gruben (MDNR) Clifford Eng (CRA) Jim Archibald (CRA) PRC Distribution List CRA Consulting Engineers CONESTOGA-ROVERS & ASSOCIATES LIMITED 651 Colby Drive, Waterloo, Ontario, Canada N2V 1C2 (519) 884-0510

June 21, 1990

Reference No. 2433

Ms. Maureen O'Mara On-Scene Coordinator, Rasmussen Site United States Environmental Protection Agency Region V, (5HS-11) 230 S. Dearborn Street Chicago, Illinois 60604

Dear Ms. O'Mara:

Re: Disposal of Staged Materials Rasmussen Immediate Response Action

This letter is to confirm discussions held on June 18 and June 19 between yourself and Mr. Clifford Eng of CRA regarding the proposed disposal of staged materials from the Rasmussen Site.

As discussed, facilities which have been identified include:

- Chemical Waste Management, Inc.
 Emelle, Alabama
 ALD000622464
 (Landfill for Wastestream 4 Insert Solids and RCRA Empty Drums)
- Kettleman Hills Treatment Center (Chem Waste) Kettleman City, California CAT000646117 (Landfill for Wastestream 1 - Waste Solids, Wastestream 3 - Paint Solids, Wastestream 4 - Inert Solids and RCRA Empty Drums)
- US Ecology Inc. Beatty, Nevada NVT330010000 (Landfill for Wastestreams 1, 3, 4)
- Envirosafe Services of Idaho, Inc. Mountain Home, Idaho IDD073114654 (Landfill for Wastestream 1, 3, 4)
- CWM Chemical Services Inc. Chicago, Illinois ILD000672121 (Incinerator for Wastestream 2 - Flammable Liquids)

CONESTOGA-ROVERS & ASSOCIATES LIMITED Consulting Engineers

June 21, 1990

Reference No. 2433

-2-

 CyanoKEM, Inc. Detroit, Michigan MID098011992 (Wastewater)

We wish to confirm our conversation of June 19 during which you advised us that USEPA has checked the compliance status of these facilities and determined that materials staged at the Rasmussen Site may be transported and disposed of at these TSDFs.

We also wish to confirm that Site work for transport and disposal is scheduled to commence next week (week of June 25, 1990). Drummed solids will be consolidated on Site into appropriate wastestreams and transported in bulk loads. The Rasmussen PRC will make a final decision next week regarding which landfill(s) will be selected and notify USEPA prior to commencing off-Site transport. The real-time air monitoring program will be reinstated during bulking and loading operations.

As requested, we will notify your oversight contractor, Versar, of the on-Site startup date once it is finalized.

Should you have any questions concerning the above, please contact us at your convenience.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Bruce A. Monteith P. Eng. CE/ec/13

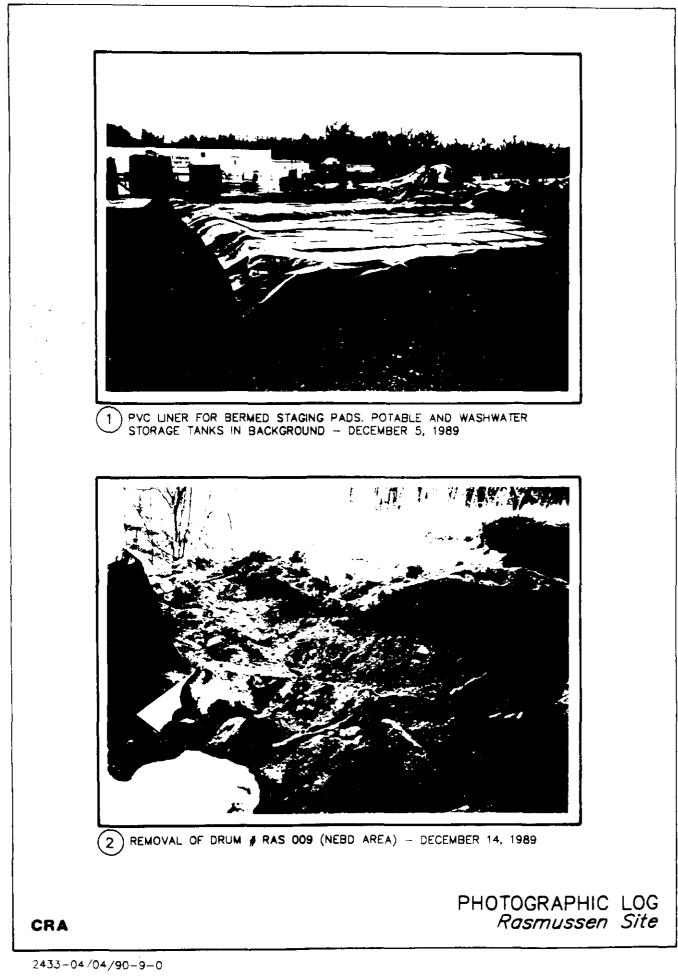
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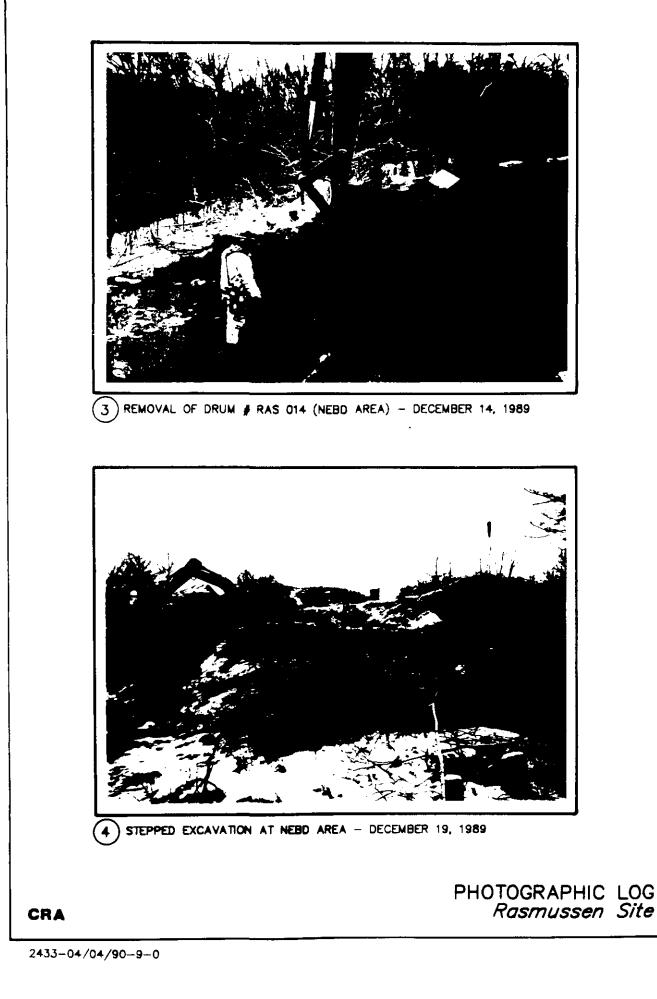
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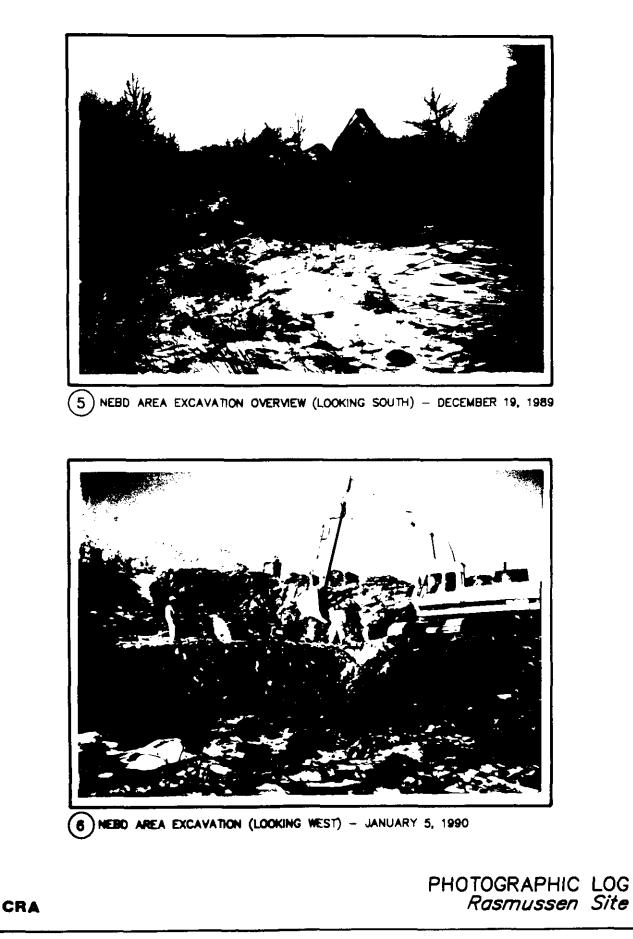
APPENDIX B

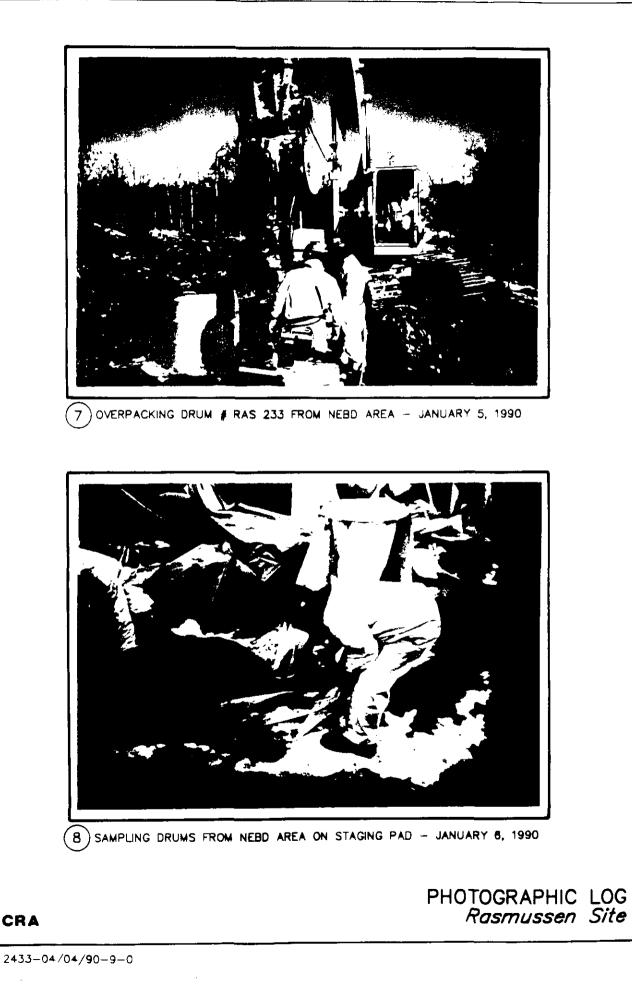
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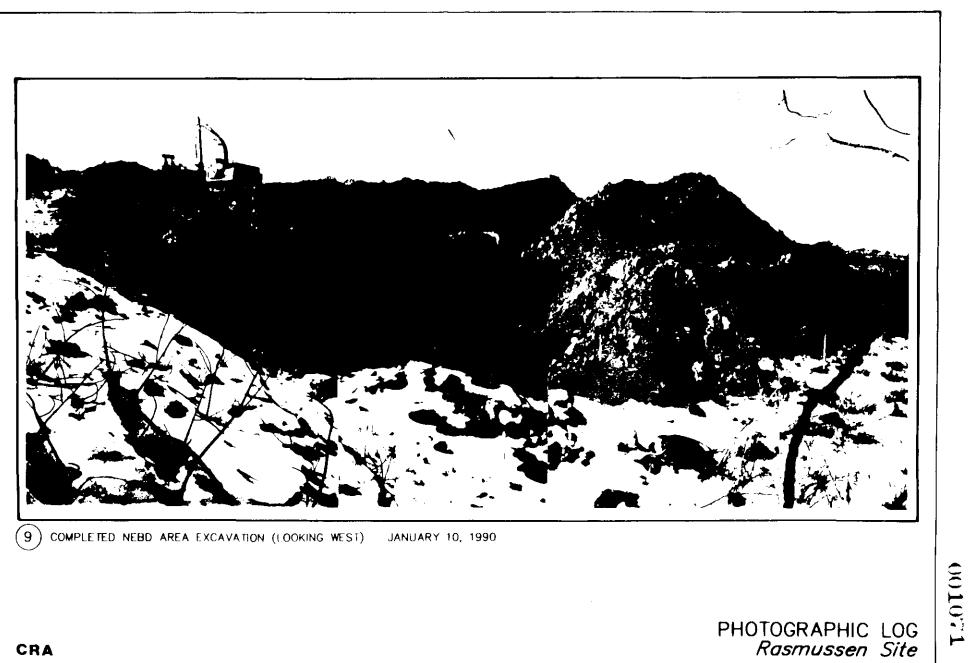
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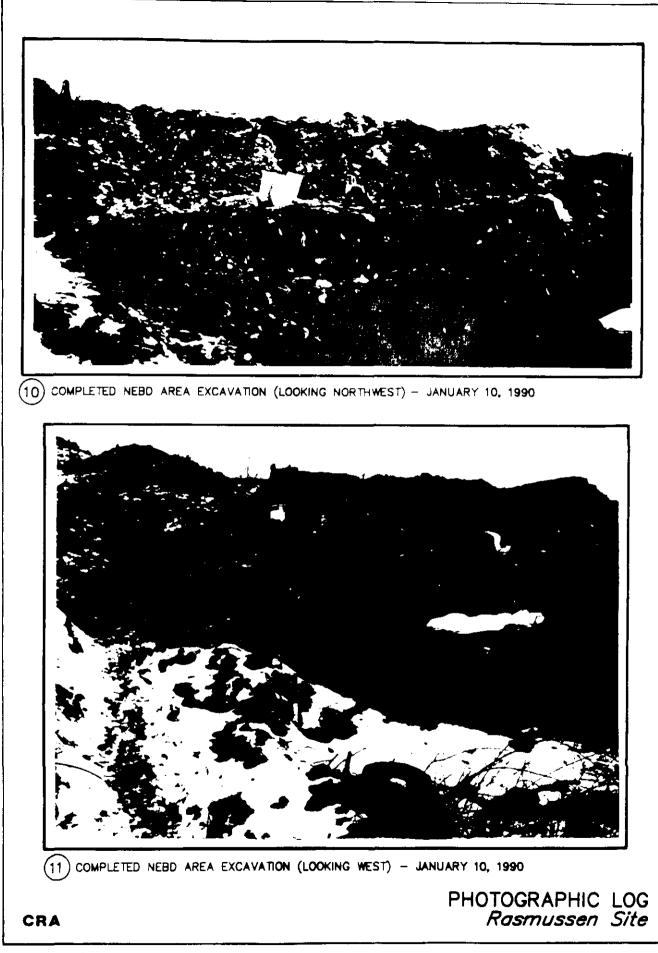




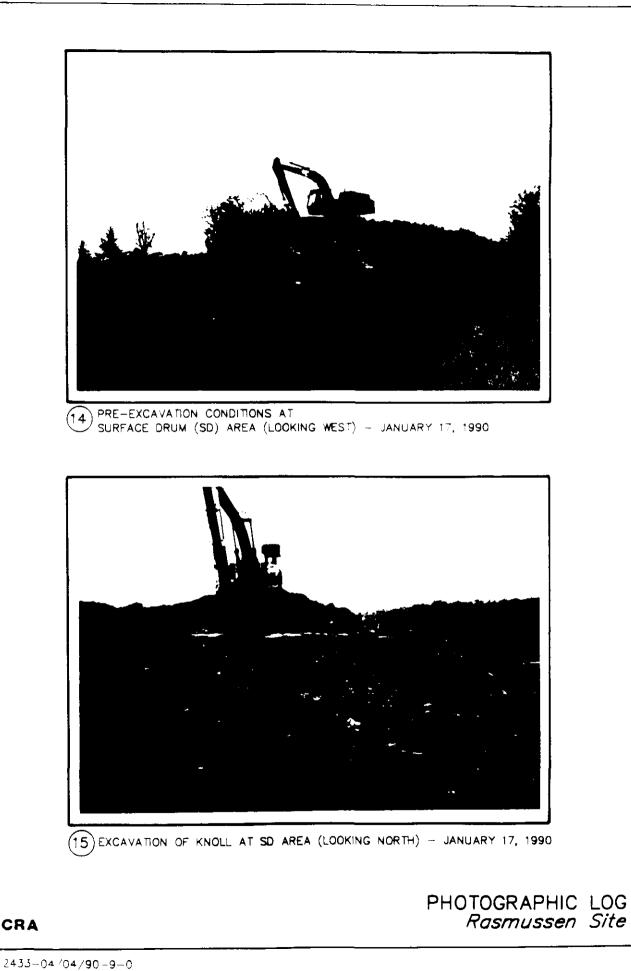


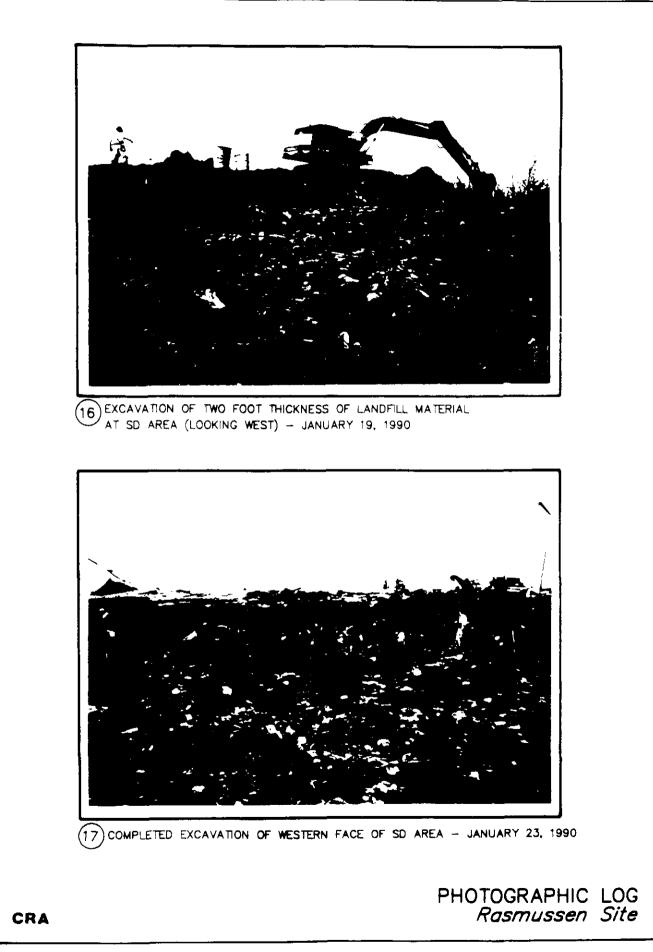


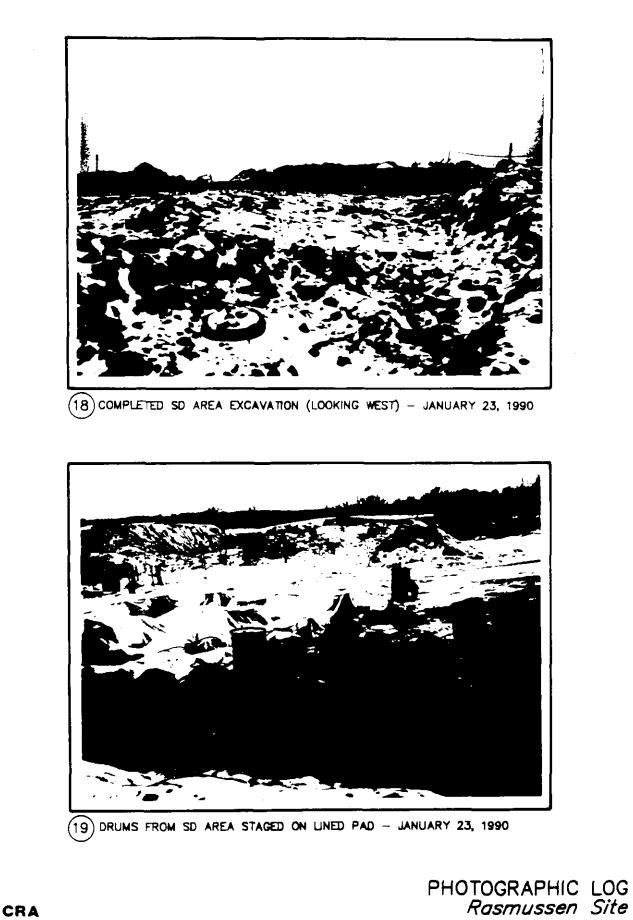
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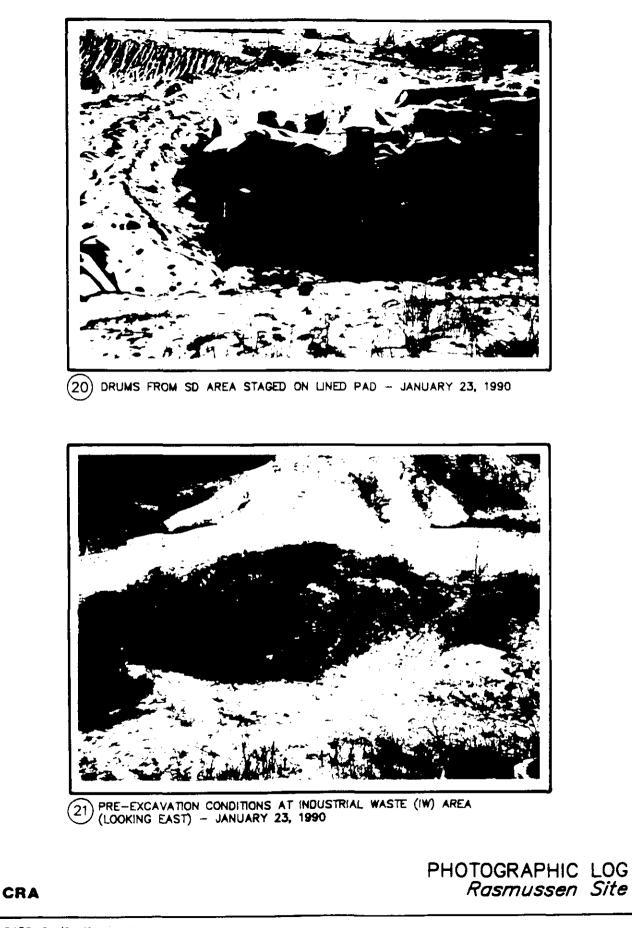


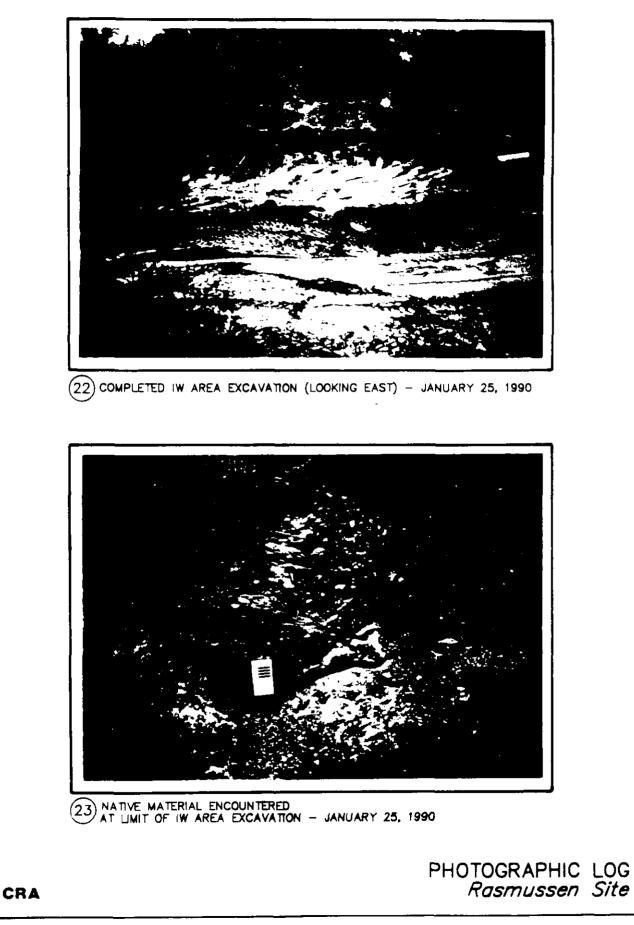


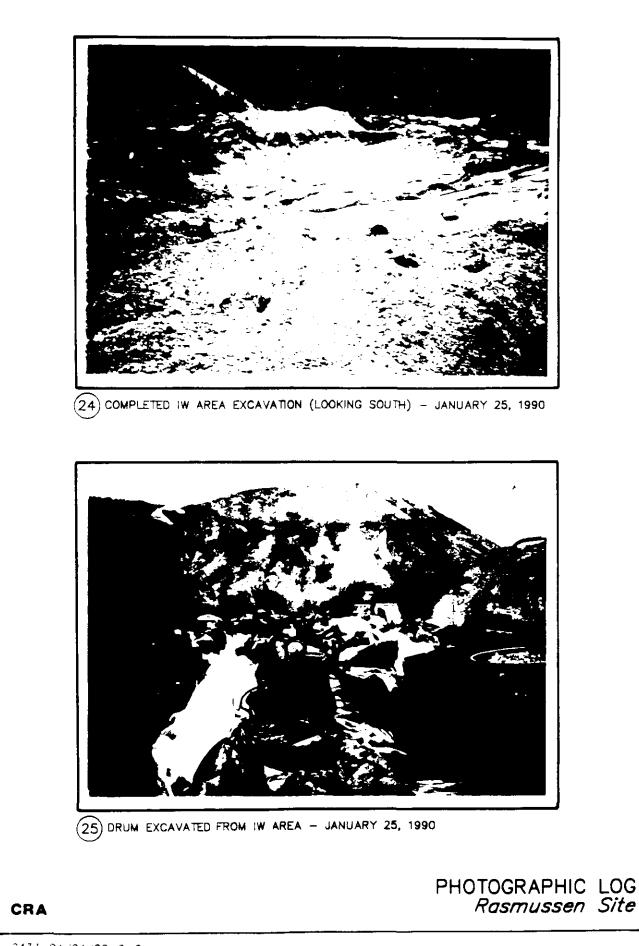


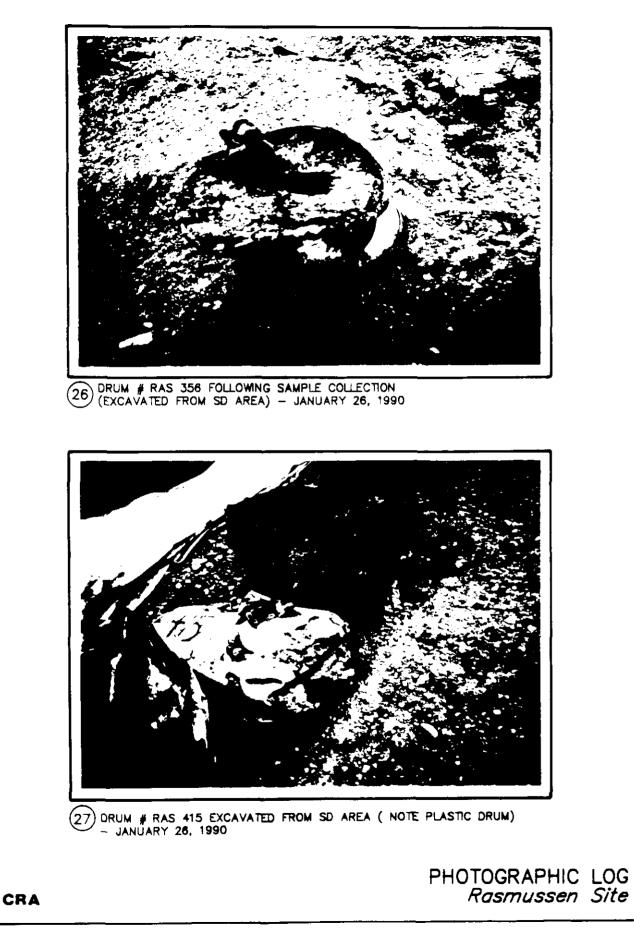


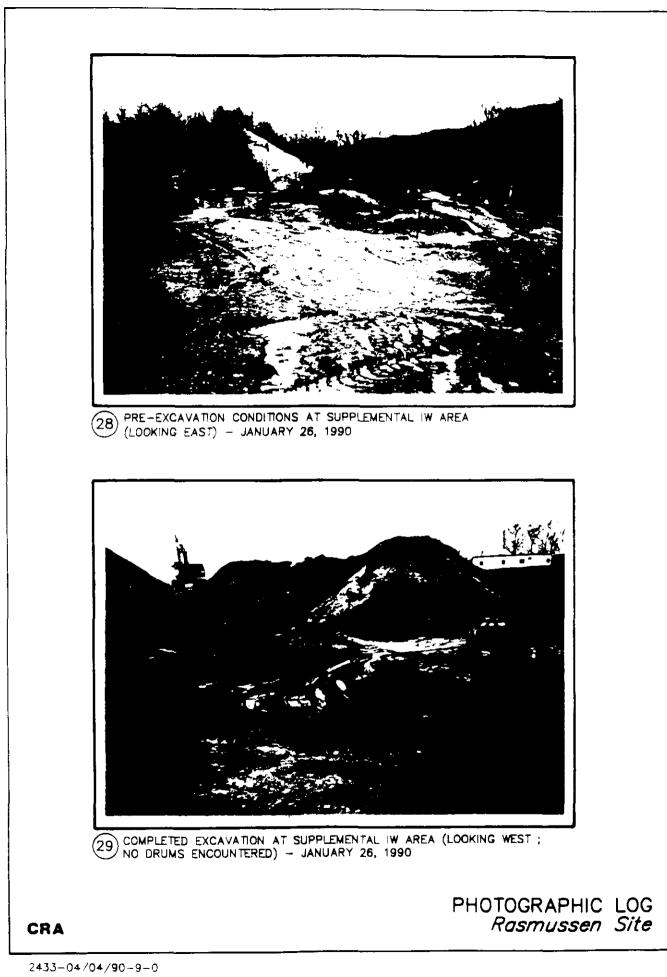


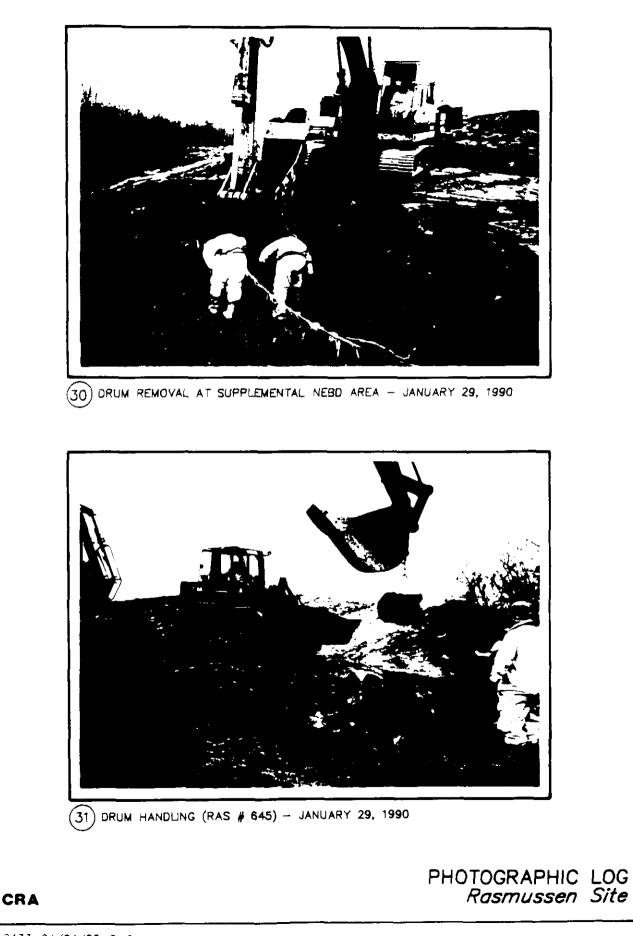


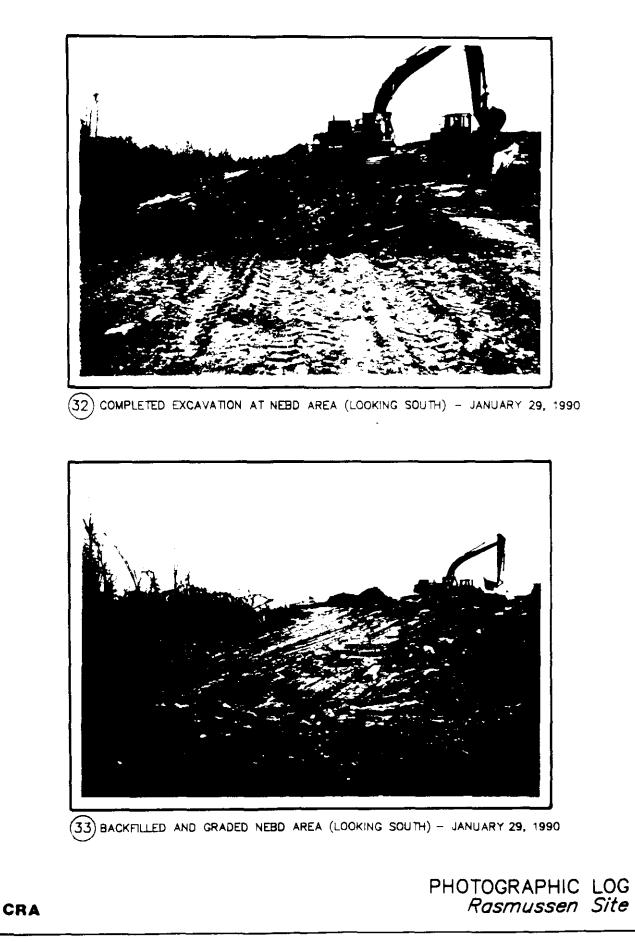




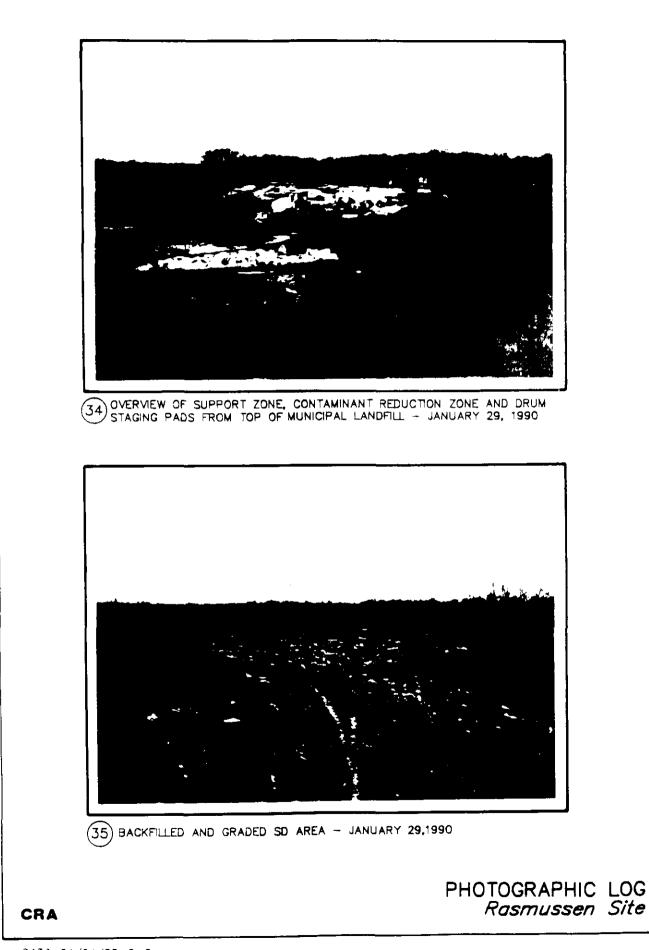






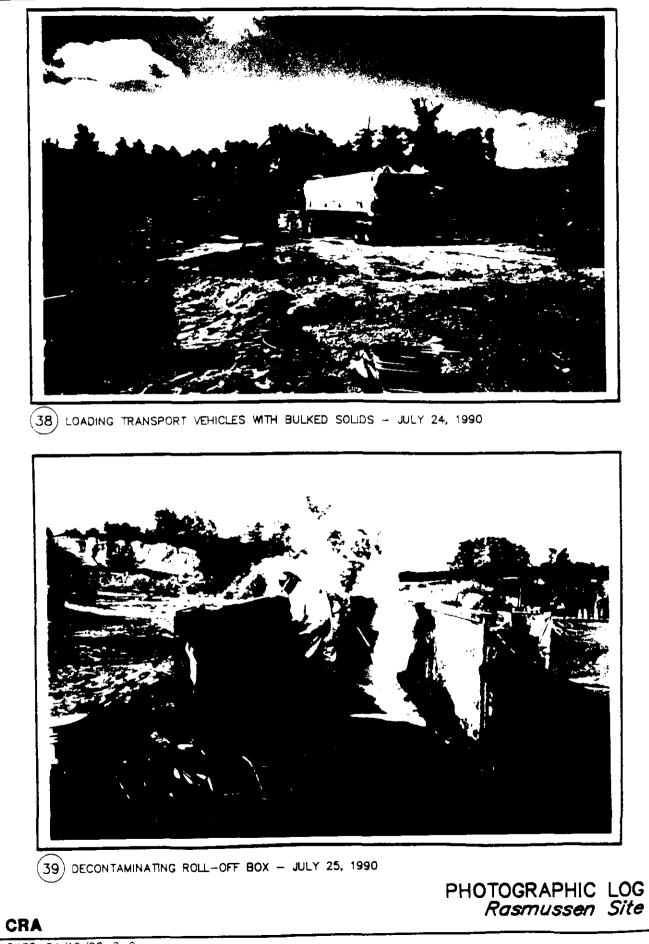


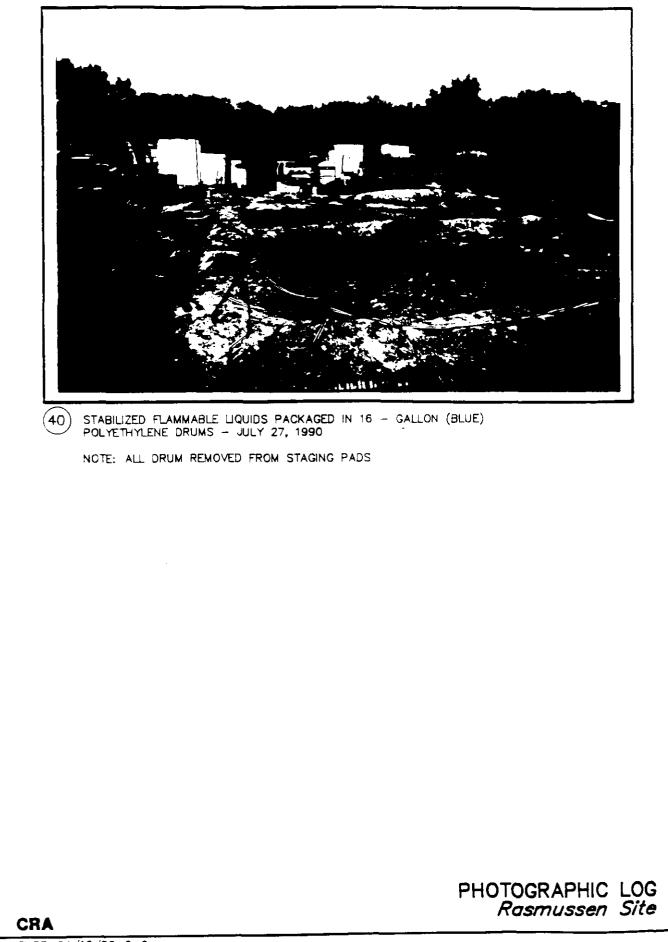
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APPENDIX C

SITE SECURITY LOGS

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12/6	Jin Archbold	CRA			7:05	5:10	
1716	Kerry M. Hunber	WESTON-THAT			7:2	5.00	
•	Bill MeIntyre	cwm			7:00	530	
2.6.89	GARY R ANSCHUGTZ	CNM			1:00	530	
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12/11	A. Koveski	cum			6;30	6:15	Mikemalec
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12/1	BAL Mith	CUM			7:2-	6:15	
12/	J. Achdid	CRA	1		7	510	
12-11	Kerry M. Hanlen	Wiston-TAT			700	5:45	
	C-NET R HASSILVETZ	Cwm			2.00	5:30	
12-11-89	Michael R Malec	(wn			70	6:15	
·	KARL G. ROSENBERGER	Y King Service	<u>ح</u>		7.15	5:00	`
	Durl Durn Ni	Cum)00	5:30	
2-11-89	Kon 400. Jivy	Phone			500	3:00	·
12-12-89	Mike Malec	Cwm			703an	6.00 %	· · · · · · · · · · · · · · · · · · ·
12/12/19	TODO TRETS	CWM			7;12141	6 20 P.A.	
12/12/84	Darl Duinwi	Cum			200	5.3	
11-12-21	GARY A Man Husiz	<u>Ĉum</u>	·		700	5:30	
istite	T. CAIN JE	CNM	······································		7:60	6.00 fr	
12-12-8	Aarthoug Afloresk,	cum	·····	7	1:00	6.0. f.n	
7-12 85	top mit	Cum		-	<u>7,00</u>	6 - 58 - 1.7	
						:	

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				_		001033
DATE	NAME	CUIZEN	REPRESENTING	STREET ADDRESS	CITY	i Time of : Time of CALLING (
2/12	SOUTH LOUMR		CWM			2:05 6 co ha
<i>בו/בן</i>	Resry M. Houlo	:	WEJTON THT		· ·	7:00 10:00 1.1
12/12	In Albeld		CRA			720 520
12/12	DAVE CUSHMAN		CRA			6:50 5:15
12/12	KARI Rosevier	1 ER	Vary Son	111053	:	7:45 3:45
L I		,				
illis	THUMAS E CAN JC		Cum		•	6:45 6:30
12/13	TONY KAJESKI		Cum			1,45 600
2/13=	TODO TERTS	:	Cum			1. dag 6: 30
• •) in Aich hald	1	CRA			7" 6"
	PAN BONDA		WESTIN RAT			510 AL 6:15
- 1	herry M Henlon		WESTON-TAT			700 530
12/13	SCOTLOUAR		Cwm	;		103 5:40
12/13	Michael Males		Cuino		; ; 	700 16:30
12/13	Bill Mil		CWM'			700540
, · · · ·	CARY & HUSHLEFZ	-	Cum		:	1:00 5:30
12/13/83	PARL Durifout		CUM			100 5:30
	MALIC HOCPEL		Can	1 	 	7.00 6.00
•	(Qin anderson	1	Cwn	·	; }	700 6:00
	Tind Timbind		د دور	j	· · · · · · · · · · · · · · · · · · ·	7:00 6:00
1	DAVE CLISTINAN		CRA	· · · · · · · · · · · · · · · · · · ·		7.35 6 "
المر المار	areas area		دهن			8:15.6"
- /13	KARL RUSENBERGER	i V L	Kerry	. <u> </u>		7115 3:30
	Druise - word-		- DNR			AND 10
·		,		· · · · · · · · · · · · · · · · · · ·		

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-DATE	NAME	REPRESENTING	STREET ADDRESS	CITY	Time of Arrival	Time of Departure	CALLING ON
12/13	Eury Mileyezak	MINZ			\$015	1510	· · · · · · · · · · · · · · · · · · ·
12/14	Mike Mulea	Cwm			700	[e:10]	·
12/14	Jin Adbild	CRA			7.5	5:55 A	
12/14	Kessym. Home	UCSTON-TAT			500	1700	
2-14-89	CMRY & Augutustz	Cwm		· ·	7:00	5:30	
2- 4- 59	AnTHONY H Kowski	Cum		, , , , , , , , , , , , , , , , , , , ,	7:00	5.30	
1-14-8	THOMAS E CAN I	CWM	· · · · · · · · · · · · · · · · · · · ·	: 	7:00	600	
12/14/54	DAIL Durmt	Cum			700	5RA	<u> </u>
	an Berda	WESTEN-TAT			100	1700	
	Bill Me Interre	CWM			700	5:30	
	MARIC Huse	CWM			7:00	5:30	
	C. anderson	cum			7:00	5:30	
12/14/5	- Forto	cas			7.3-	5:55 PM	
12/14	KARLG. ROSANSAROCA	" Kary	_	· · · · · · · · · · · · · · · · · · ·	8:15	5:00	
	D. CUSHMAN	CRA	· · · · · · · · · · · · · · · · · · ·		7:20	6:45 P1	
12/14	R. Milejezak	MONR			9:45	1650	
	R. Conley	NUS			1011	1730	
	D. Hawred	NUS			1011	1730	
12/14	K RuhlMAN	STRAENS			0:	1730	
12-14	6 Geerligs	stearng			10\$11	.1730	<u> </u>
12-14	DGruben	MONR	1 	· · · · · · · · · · · · · · · · · · ·	9:30	5:00	
12.14	Tristouhail	cum	, 		710-	5.30	<i></i>
12-140	Web Arate	CWM			7.00	6:00	
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DATE	NAME		REPRESENTING	STREET ADDRESS	СІТҮ	Time of Arrival	Time of Departure	CALLING ON
12/15	DAVE CUSHMAN		CFA			7:00	1:55	
	Kerry M. Hanka	 	LESTER .TAT	<u> </u>		7200	6511	
1.2/15-	ANN BOUDA		WESTON-Tht			0.100	1200	
ک، را	T. CANSE		CWM	<u></u>		7:00>	100	
12/15	TOTO DEETS		Cum			7:00	100	
12/15	T- A Thuling		cwn			7:00	100	
12 15 81	GARLY R ANSCHUETZ		CWM			7:00	100	
r/15	Jin Arlbald	1	CRA		 	705	$\omega$	
3.5	- Chin Chardenson	 	cu m		,   	7:00	100	
12/15	Authowy H Koveski	1	CWM			7:00	100	<u>-</u> -
15	Bill MeIntyre	-	cwm	<b>-</b>		7:00	00	
12/15	MAKK HocDER	· ·	CWM		<u> </u>	7.00	100	
12/15	Mike Malec R. Conley	1	Cwn			700	100	
		} 	NUS			0742	1405	
	D.R. HAMEL	:	NUS			0742	445	
	G.Geerlig's	 	stearns			755	1405	
· . Frs	K. Rul Im Hon		STEARNS		<u> </u>	>55	1405	
12/15			CRA		•	7:20	1-:5	
12/15	KARL ROSENDERGED	V, KA	Kouy			8:30		<del></del>
12/15		1 <u> </u>	MONL	<u></u>	<u> </u>	8:30	12:35	
n/15	Domise Onlon	 	MONR		 	8:15	12:40	
12/16	DAVE CUSHMAN	;	CRA		<u> \</u>	<u>  :3</u>	12:10	
13/18	DAVE CUSHMAN		CRA			7-00	11:45	
· .	· · · · · · · · · · · · · · · · · · ·			•.	<u> </u>	:		
· · ·		:			<u>"</u>	: 		

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	001096	KE	GISIEK			
DATE	NAME	REPRESENTING	STREET ADDRESS		Time of Departure	CALLING ON
12/18/84	T.Cow Jr	Y CWM. ENER	<u> </u>	7:00	6:00	
	C. Anderson	1 1		7:00	<u>.</u>	
12-18-29	CAR! P Auschertz	-y cum	·	2:00	5:30	-
12-19-8	Todd Rotetts	y Cwn		7:50	6.60	
12-18-87	Tithabins	Y cwm	•	7:00	,	
	DArl Durnant	xcum		200	5:30	
12/18/19	Sut Colla	lwn	····	7 47	5:40	
12/18/89	ANN BENDA	WESTON-TAT	r	710	1550	
12/18/89	Bill MeIntyre	cwm	······································	700	5.40	$\checkmark$
116	Aworthan A Hillo vesti	Y cwm	,	7:00	<i>5:4</i> 0	
12/18	Michael Males	Cwm	•   	700	6:00	
12/18	Jin Anhibad	CRA		. 700	620	
12/18	KALL G ROSENBERGER	Kercy	:	<u>8:</u> 0	0 4:45	
1737	chiford the	an	· · · · · · · · · · · · · · · · · · ·	50	57.00	
12-18	Conley Ray	NUS	- - 	OF 30	0/725	· · · · · · · · · · · · · · · · · · ·
12/18 89	HAREL DAN	NUS		OBC	1725	<u> </u>
17-18	Gary Get 148	sterrns		945	1725	• •
12-18	Killy Rohlmunn	1( //		1.45	1725	•
17.18	Denie Grupen	MONR		8:55	5:30	·
12-12	Robert C. Hunt	NUS	,	1240	1355	
12.18	mily marin	- Michigan Trac	<u>6</u>	3:5:	2	
12-19 .	Todd a Title	Y ANM		7.10	600	•
2-19	DHEL Durnent	VEUM		700	5,20	•
12 19	ARIA' BERIDA	Ciesten TAT	-	734	1800	
i		; ;	· · · · · · · · · · · · · · · · · · ·	; 		·

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	DATE	NAME		REPRESENTING	STREET ADDRESS	CITY	Time of	Time of Departure	CALLING ON	
	12-19	ANTOHONY HKOUSE	Y	cum			7:00	530		
	12-19	Michael Marter		(			700	6:30		
	12/19	BillmcIntyre	-	cwm			7:00	530		
	17-11-37			CWNI			1:00	i .		
	12/14/ 41	SEDTI LOLLAR		CWL		 		5:41		
	12/19/29	Jim Archbold		CRA		· ·	720	605		
 	10118187	T. CAIN. JR.	 	cum	······		7:00	6:30		
. <u> </u>		AFTOS RUG		:			7.35	62		
		ADD ISIDHAN		CRA	-	; ; !	745	6:05		
<u></u>	17/11	Fi Dtri Hamek		NUS	. <u> </u>	1 1 1 1 1	752	1740		
	: 12/19 89	Curley, hoy	4	NUSCIEP		: : 	075Z	1740		
<u> </u>	12-19	Creity Carilias	 	Stearns			805	1210		
<u>-</u>		Yelis Ruhlman		NV //				1740		
	12/17	· / + · · · · · · · · · · · · · · · · ·	30	KELLY			8:15	4:45	<u></u>	
·	1.19	LEVIN M'GRATH	 	CWM		1 • •	10:30	1:00		
$\leq$	12/19	Dense Gruben		MONR		!		5: <b>15</b>		
	12/19	Ray Milejezak		MONR			P:00			
	12/19			CRA		[ 	7:40	6-		
<u>-</u>	h2/19	Velmont Braules	4	EDI				2:30		
	12/19	Tit Mebauf		cum	· · · · · · · · · · · · · · · · · · ·		7 Am	6 An	<u></u>	
- <b></b>	12/2									
; <b>-</b>	12/20		1	CWM				5.45		
		TODE D. THERE		CWM		   	1		MISSION	
- <u></u>	1220	T. GUN. SR		CUM	<u> </u>	) 	נט. <u>ר'</u>	5.3		
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DATE	NAME	chitte	REPRESENTING	STREET ADDRESS	CITY	Time of Arrival	Time of Departure	CALLING ON
12/20	Dorr L Dursont	X	Cum		!	7.00	5:30	
	Bill M-Intyre		cum_			700	5:45	
18/20	Aurtowy H Kovesti	Y	Cw m		·	7:00	5:30	
12/23	GARY A-selfur-TZ		CUM			7:00	5:30	
12/20	Jim Archibild		CRA			710	6'0	
12/20	ann Benda		Weston THT			0710		1
12/20	CLIPFIER BLG		COA			7:25	(5:30 FM	
	Gruben, Denise		MONR		,.	2800	5:15	
89	Conley, Roy		NUS			0800	30	
12-20 89	Home ( Dan		NS			0500	570	
12-20	Geerlichs, Gary		Steams			0800	530	
12-20 89	Ruhiman, Kelly		Stearns			0800	530	
12/22	Sont Lours		Cwr			8.00	5:45	
12/2	KEN POLKINHOOM		Cwn		. <u>.</u>	But	5.45	
12/20	KARL ROSENSOUR	242	Kary Sound	-3		8:00	4:45	
12/20	Tink THEBAUD		cwm			8 An	5:45	
12/20	Ray Nulejuch		MONR			0835	<i>143</i> 8	
2/20								
12/20	Bill Kertz					700	500	
11/00	Ang Ball		the AM					
12/20	DAVE CUSHMAN		CRA		<u></u>	7:30	6:15	
12/21	TODO TREES		CWM			1700	530	
12/21			CWM			700	530	
12/21	PARL DURANT		Cum			700		

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	<u>.</u>	<u></u>									
		DATE	NAME		REPRESENTING	STREET ADDRESS	СІТҮ	Time of Arrival	Time of Departure	CALLING ON	
		12-21-89	CARY R Auscher		Cum			7:00	5:30		
	-	12/24/54	B.S. Allen		Cirm			710	4:00		
		12/21/8	Bill MeIntyre		cwm			7:00	530		
			Ken Polkinghorn		CWM			700	545		
			ANN BENDA		WESTON - TAr			1	1445		
		12/21/89	Haman O'Hana		EP4			0715	1200		
		12/21/85	Steve Bunsen		Unon TES	_		0715	1770		
		12/21	Jun Arch bold		CRA			720	5:30	-	
$\bigvee$		12/21	KARL FOSCHRERE	-	Laur Service	5		7=2"	430	<u></u>	
		12/24	aliter Sa		CRA			7:4e	525		
-		12/21 89	Conley, Roy		NUS			Grav	1715		
		12/21	Hamel Dan		NUS			0800	1715		
	i	89	Geerliums Eary		Steams			0500	1715		
:		12/21 89	Ruhiman Relly		Stains			08.00	715		
		17/21	Dense Grieben		MDIVE	·····	 	6800	4:15		
$\sim$		12/21	Ray Melyigh		MONR				1535		
· ·		10/21	DAVE CUSHMAN		CRA	•		7:/5	520		
		12/21	GLENN MAPPINOD		W MJ	•			1220		
		12/21	Ti Athebin	Ĺ	Cum			700	5 20		
		12-22-84	CARY & Auschvitz		Cum			7:00	1:00		
:		12/2-19	Stere Binisen		Verm	· · · · · · · · · · · · · · · · · · ·		7.00	I. Marker	*	
;	_	12/22/5	Dyol Paront		Cum			200	1:00		
	<u> </u>	12/22			AD	 		7	230	·	
:	<u> </u>	12/22	57 Law Pol (Lugleoun		CUM		ļ	700	130		
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DATE	NAME	REPRESENTING	STREET ADDRESS	CITY	Time of Arrival	Time of Departure	CALLING ON
2/22	M. Mules	CWM			700	130	)
2/22_	Tin A. Thisling	Cum			7:00	2	<u> </u>
12/22	Toda & Frato	CWM			7:00	130	
12/22	B.S. LOLLAR	CWM			7:50	130	
12/2	are als	CRA			11:45	1:16 5 fc	
9/26	DanShouton	Port Olef			20.°C	12:12	
26	Carben	MDUR			12:31	5.30	
3 /	Game 711 yes	MONR			12:45	<u>530</u>	L-
<u>z6</u> Z ₁₂ 172	DAN HAMEL	NUS			130	1:50 542	<u> </u>
17/2.	Roy concor	NUS			130	<b>!</b> • •	
12-36	Markteal	Misto Rubbish			2:30	2:35	
7-26-	Dang & Krame	Stearns Dilling			325	542	
12/27	1 From Fords	- CRA			7:30	<u>s</u> t	
12/22	Daw Hamel	NUS			754	506	
1921/87	DUANE DAVERMAN	STEARNS DRILLING		· · · · · · · · · · · · · · · · · · · ·	7.45	Sol	
12/27		DRILLING			7.45		<u> </u>
12/27	DGruben	MOUR		·	8:00		······
12/27	James Myers	MONE	<b>.</b>	i 	8:10	4:43	
iz/27	Barry & Broot	Con-why (DRUMS) CONTRAL (DRUMS)			10:55	//:33	
12/27	· · · · · · · · · · · · · · · · · · ·	("ame to an CWM) IV.OF			2:36	2:40	
12/27	SCOTT SWER	(GUNGRATUR Co.) COFFINN ELE	•		235	5.35	
2/28 1999	Signal and	æ			7:30	3.07	
12/28	Daugh R Kraun	STEARNSPILL	nş		7.45	205	
1757	DUANE DAVERMAN	STE <b>MUS</b> Dhilling			1:45	205	:

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	DATE	NAME		REPRESENTING	STREET ADDRESS	СІТҮ		Time of Departure	CALLING ON
	12/28	DAN HAMEL		NUZ			0750	205	
	12/28	ROY CONLEY		NUS				205	
ŀ	12/28	JAMES MYEES		MONR			8:01	12:00	<u> </u>
	12/28	DGhe		MONR			8:00		<u> </u>
,	428	T. Lyons		Envir. Drilling			12:00	4:30	
: : :	12/29/5	Mik Patin		Consigner 0,2			7,50	808	
	i	J. Refertson		Guard			1900	24100	<b>.</b> . <b>.</b>
	:2/30/89	P. Grun	1	Inward-			1/ Art.		
	- 101 101 101	حداعهم هاج					6 50 PJ	5 15 PM	
	14012 (350)	an <del>respec</del>		COA			7:10	6:30 PM	
	1/2/20	KARL G. ROSENBERGER	S A	Kerry Sorences			8:00 M	5~	
 	)/z/90	JANES W. ARCHIERON		CRA				5 ³⁰ .	•
	12/90	Tulesszeck		CAR			1030	6.30	
	10/90	Quare Deverman		Stearno Dilling			11:15	518	
	1[490	AdmidRAtanel		Nus			1115	518	<u></u>
	1-2-90	THOMAS E CAIN JE		CWM			11:40	6.00	
Į	1-2-90	Steve Runsen		Verson		<u></u>	7:10	1650	
	1-2 - 90	GARY AUSCHLEFZ		Cum			i	5:30	
	1/2.140	DARL Durant		Currin				5.3	<u></u>
	1/2 90			MONE			12:00	6:45	
	1/2/90			CWM				600	
, 	/2/qù	Mike Male	 	CWN			12:32	6'00	
+	1/2 90	Gim Myers		MONE			12:30	เธศо	
	, .1 <u>.</u>		1		and the second	4			

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DATE	NAME	REPRESENTING	STREET ADDRESS	CITY	Time of Arrival	Time of Departure	CALLING ON
1/2	Scott Collan	cun			12000	5pm	
1/2	William Mitature	cwm			20%	Ban	
1/2/50	Pak Kinste	Cun			2.00	5Pm	
	Todd Tists	CUM			7:00	6:15	
1/3/90	PIANI Durosant	CWM			100	3.30	
<u>1-3-96'</u>	CARY Auschustz	Cuin			1:00	3:30	
1-3-90	THOMAS E CANSE	Cwm			7:00	4:30	
1-3 40	Bak Kriets	cum	   		2:00	4:30	· · · · · · · · · · · · · · · · · · ·
1-3.90	Mike Malec	Cwn				6:15	
1-3-90	Bill Milityre	CWM			7:00	43-	·
	Steve Burnen	Versen				1345	
1/3	Scott Lolla	cwn			7:00	4.40	
13	Jim Archibald	CNA				345	
13	Zn Wasbeck	CRA			7:5	5~	
1/3	Contan Rey	NUS			0750	125	· · · · · · · · · · · · · · · · · · ·
1/3/90	Davelkajael	NUS			0750	1700	
1/3/70	Jim Gryska	STEARNS			0900	170	·
1/3	Duane Davernam	STEARNS			0800	100	!
120		CRA			57:30 A4	6:15 FT	• • •
1/3	KARL G. RESENBURGE	Kenn			8:00	4:50	
4/3	I am Migues	MONR			8:05	1702	
$V_3$	David Rough	Smith Cut			9:5	200	
1/3	Tim Lyons	Environ. Orilling			10:1	4:5	
. 13	( JONEN MIG ANACO)	wm7 suc.			16:15	11:15	
							:

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	DATE	NAME		REPRESENTING	STREET ADDRESS	CITY	Time of Arrival	Time of Departure	CALLING ON
	1-3.40	SCOTT SUG		concrat Ec	Ee		8:15	8:5	-
								·	
	1-4-90	Mike Molec		Cum			700	6:00	
	1-4-9D	Bill McIntyre		cwm			7:00	530	
	1-4-90	THOMAS E. CAIN JE.		CUM			7:00	6:00	WORK
	1-4-90	Steve Bunser		Verson			7:00	4-30	
	1/4/90	Parl Durgent		cum			100	430	
		Bob Kriete	 	CUM		 	Tia	6:00	
	1/ <i>ද</i>	Tim Lyons	ļ	Env.ro Drilling Enviro			8:45	12:30	
Î	Y4	John B-lloch		Drilling			<b>र</b> :45	12:30	
		SLOTT LOUNAR	<b>↓</b>	Cwm			3:00	5:30	
	1/4/98	Todd Derteks		CWM		 	70	6:00	
	1	GARY Aughter		Cum				4:30	
		Jim Alchibald		CRA			7'5	<u>.</u>	
, <del>,</del>	44	Couley, Koy		NUS			0730	5°	
$\underline{\checkmark}$	44	Haune ( Dans		NUS			0730		
	١ų	Gryska, Jim		Stearns				51	
	1	Daneiman Duby re		Stearns			0730	5.	<u> </u>
		chiemes Nilyers		MDINE				1630	<u></u>
	Y4	1.14. T. 0		NUS			1400	IS I	
, , ,	1/11	KARL 6. RESONBURGER	57F	Hain		ELLI ELLI	10 50	10	
•	,	GARY & Argelfuerz.	 	Cum			7:00	12:30	
<u>-</u>	1/5/90	TOOD DETERS		CalM			7:00	4.00	
	115/10	Steve Burgen		Verson			7:00	3.00	
	<u> </u>	·		1					

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# REGISTER

DATE	NAME	QTTZEN	REPRESENTING	STREET ADDRESS	СІТҮ	Time of Arrival	Time of Departure	CALLING ON
45/90	DArl Durant	у	Cwm			700	18:30	
	Mike Males		Cwm				230	
	THOMAS E CAN JE	Y				7:10	3:00	
	Jim Archibald		CRA			715	1245	
1/5/90	T.W.DBBack		CRP			7:10	3:00)	
1	Scott Lollar		Cwm				3:00	
- 1	Job Kri Ho		can				3:00	
/ /	350 ME	 	cum				3.00	
	Kape & Rosanson	2	Kong	·			2:00	
	James Myus		MONE			805	1300	
1/10/90	THAN DET SERVE		CWM			4:55	libe	
· ·	T, WESSECK		lea				6:00	
	Stive Bursen		Versa				3:30	
	STAN HUBER		CWM			\$:20	6,00	1
	PAT TANIDSON		awm			8:20	Gito	i
1 1	1 1		UNESAR				6:00	
1990			CRA.			2:30	4:25	
1/1/90	TOTOTRETS		CUM			9:00	1:00	
11		-						
118/90	Mike Malec		CWM			700	6:00	
	Diard Duriow T		cwm			700	5-28	
15/20	Bob Kriete		Cum			7:00	5:45	:
	Bill M-Intyre		CWM			1.	5645	
1/8	Scott Lellan		Cuin			7:00		

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001105

	DATE	NAME		REPRESENTING	STREET ADDRESS	CITY	Time of Arrival	Time of Departure	CALLING ON
	1-8-90	THOMAS E CAIN. SR.	Y	Cum			7:00	6:00	
		Taro D. Terrs	y	CWM			7:00		<u></u>
		GART & ANSCHUETZ		CWNI			1:00		
		Im Archibeld		CRA	_		1	39	
	1	The Schwiegher		Viene			7:00	5.00pm	
		d porto		a A			7:45	12:50	
	141)00 1990			cas			7:45	6:00	
	1990	MIREQUINETO		CRA			7:45	6:00	
	1-8-90	Ray Milejozak		MONE			0810	1650	
	1-8-90	yum Myus		MONR			930	1705	
	1.9.90	Bob Kriete		cum			6:55	505	
	1  g	33 Willow		(wn			7	432	
	1/9/90	THOMAS E COUN JR		Cwm			655	5:45	
		Bill Metityce		cum		· · · ·	655	545	
₹ ₹ 1	-9 - 90	Poor Durant		Cwm			200	5,24	- 402
1	1-9-96	CARY R Anthoir	   	CWNI			7:00	5:00	· · · ·
	1-9-90	Too D. TRATS		CUM				545	
	1-9-90	Michael Z Maler		Cwn			700	540	
	1/9/90	In Albed		CRA			7∞	500	
	1-9-90	Jim Myers		MONR			750	16 <b>05</b>	
	1/9/90	Dave Scotwisse		VARSAR			700	1609	
	<u>'/n</u>	KARL ROSENBORGOR	<u>X</u>	Kaukservic	£3		8100	5:00	
	1/9/90	MIKE OKAMOTO .		CRA			7:30	5:45	
	- 1_		$\vdash$						
		the second second second second second	! *				ا د د د د مهره در مهره	ء جو بر ور بوسید در مرکز کرد و میکود در	

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DATE	NAME	CITZES	REPRESENTING	STREET ADDRESS	CITY	Time of Arrivai	Time of Departure	CALLING ON	
Miolau	THOMAS E Caid SE	Y	Cwm			6:55	5030		1
1/10/40	Bob Kuite		curs			6055	5:30		
1-10.46	CRR Hugelfut		Cum			7:00	5:00		
1-10	Stor COLLAR		Cwn			7.000	5:30		C the second
1-10	Bill MEINtyre		cum	· · · · ·		00:7	5:30		
1-10/90	Dart Duritint		Cwin			7.00	500		
1/10/93	Topo D. Tears	.Y	CWM			7:æ	6:00		1
	Mike Maler		CWM			700	6:00		1
10/40	Jin Arch.bald		CRA			200	530		/ 
	Domber		MDNR			7:50	5:00		
1/10/90	Dave Scitwidger	l IV	VRASIR	 		700	5:17-	<u> </u>	
	KARL ROSENBERGER	3	Key SERV	us l		8:00	<u>├.</u> ─- <u>├</u> ─		
	MIKE CKAMOTO		CRA.			7:00	105-	_, ,, · · <u></u>	
	am Bendu		WESTON TAT		. <u> </u>	1030	1055	<u> </u>	
1/10	Hancer O'Mara		US EPA		<u> </u>		1055-		) 
10	Paul Steadman		US EPA			1	1055		
1,0	amberla-		WESTON-TAT			1300	1650		
1/11/90		7	Culm				5:30		
11/10	The Schwiffabre		VERSAR			7:00	530 (20	······	
1/11/90	Jin Archibald		CRA			720	5	v	
1/1/90	Dough		DNR				10:30		+
· 1/11	Sever Kallen		Cum			750	6:30		
1/1	Rob ME Intyre		Cwm			<b> </b>	5:30	<u></u>	
1 11	Mike Maler		Cwn			155	520		

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I	DATE	NAME		REPRESENTING	STREET ADDRESS	СТТУ	Time of Arrival	Time of Departure	CALLING ON
	1411	Darl Durget		cum			100	5 <u>7</u> 4	
	1-11-90	GAR & Auschut 12	-	CWM			7.00	5:14	
	Y	Hansen O'Man		USEPA		 	0755	4~	<u></u>
		Re Kate		Lum			27	3:30	
	1/11/40	Dan Cook Bob Allmendinger		DHA			8:00	4:46	<u> </u>
		Robert Test		DNC	······		· · ·	10:30	· •=••
ļ	1/1/40	MIKE CKAMOTO		CRA				5:35	
Ļ	1/10	KARL ROSENBERGER	ľ.	KELLY		·	8:00 AM	430	
	1/11 90	D. Cook B. Altmendinger		D.H.A.			1:13 PM,	3:26 PM	
_	4 C - 90	Bob Kouste		cum			6.95	-430	
							<u> </u>		<u> </u>
	1/12	Mike Mulee		CWM			700	420	
2 2 2		CoARY Ausstuiz		cum	······································			4:00	
		Jin Archibald		CRA			700		
Ĵ.		Jave Schwinghr		VERSAR			00700	<u> </u>	
1	1/12/90	Tidd Wrate		CIOM			700	430	
1	1/12/70	Oarl Durget		cum		· · · · · · · · · · · · · · · · · · ·	700	400	
-	1/12	Bill METatyre	J				700	42-	
	1/2	KARLG. ROSENBERDER	3	KELLY SER	VICES		1	300-	
	112	[ selen Laurden]		METHICORH			<u> </u>	4!30	
	1/12	MIKE Okanota		CRA			1	5 45	
		DETERIT EDISON CO-					9.28		
		FEDERAL EXPINES					1	945	
	1/15	Tood D. TRICAS	Y	cum			700	70	
1					ه ريو	يحسبني العبدا	·		

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	001100								- <b>ち</b>
DATE	NAME	CTTZEN	REPRESENTING	STREET ADDRESS	CITY	Time of Arrival	Time of Departure	CALLING ON	1
1/15	Mike Malee		CWM	· · · · · · · · · · · · · · · · · · ·		700	700		
	THOMASE CANJE		Cwm			2100	700		-
• • •	Dard Durmit		Cwm			700	600		1 L
	CAR. A ANSCHUETZ		CWMI			7:00	600		*
1-15-90	There Schwieger		VERSAR			7:00		<u></u>	
1.15.9	Ed. Kriste		Lam			7.00	633		
	Jin Arabbeld		CRA			- T	6:00		2 2 1
1/15	Bill Milityre		Cwm			1	638		
	KARL G. ROSENBERBER	5	KELLY SERVIN	IFS		8.00	4:00	·	$\underbrace{\smile}$
•	Michael Okamoto.		CRA			7:00	6.80		
		$\left  \right $							
116	Mile Males		Ewn			700	6.5		
	GAR" ANGCHUETZ		Cum		-	7:00	5:09		
	Dill Melatyre		Cwim			7:00	6-15		•
1/16	Jin Archbold	No	CRA			2	500		:
1/4	Dur Schwinking		VARESA 12			700	500	N	<b>)</b>
190	Pho Kuite		Cum			7:00	615		
·	Too Detine		Culm			1400			
	Ditre Duriant		cum			1900 .	End?		
	KALL ROSENSOR	ž	Very Sérvice	ς		8:00	5:00		
	MIKE OFAMOTO		CRA	,		730	6:00		-
R191	· · · · · · · · · · · · · · · · · · ·								
116(40	Mithe OKAMOTO		CRA			1155	כסבו		
,	THOMAS & CAIN JE		Cwm		·	1:00	7:00	· · · · · · · · · · · · · · · · · · ·	
					1775				

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	20									01103
	4	DATE	NAME	anten	REPRESENTING	STREET ADDRESS	CITY	Time of Arriva	Time of Departure	CALLING ON
		1/17	Mike Maler		CWM			700	7:5	
	ŧ	1/17	THOMASE CAIN JR	4	Cwm				7:15	
		1/17	B.11 Mc Intyre		Cwm			700	12:30	
		i .	Bob Kir et.		CUM			7600	630	
	~[	i.	DARL Dui HINT		cwm				670	
		/	CAROR 12 x HUETZ		(11,11)			7.00	6:30	
		<u> - 1</u> 90-	Too Deters	1	CivM		····	100	120	
		1/17/90	Jim Archibald	1	CRA			715	645	
$\overset{\frown}{\leftarrow}$		1/17/90	TANE SEHWIEGAR		Vinisar			730	615	
		1/1/90	KARL ROSEN BORNER	242	VEL VSIZACO	5		8:00	5.00	
			TWEISBER	-	ine			7:00 L	6:80 ²	
;		1/19/90	1. ARCHIBACD	~.,	CRA			7.30ª	6	· · · · · · · · · · · · · · · · · · ·
			Talesseck					200 E	-	
;	•	1.18.90	CARE ? HuschLETZ		Cum			1.00	6:30	
•		148/20	Ditil DurAnt		Cum			700	652	
-		· ,	TODO TRATS	Y	CWM		<u></u>	700	7:04	· · · =
		V18/90	Bol. Kijeta		Lun			701	7:01	
		1/18/90	Bill METAtyre		iwn			Devil	7804	
		1/18/90	Mike Malec		cum			700	2:15	<u> </u>
:		1/18/90	KARL G. ROSENBERGER	5	KELL, SERVI	urs		8:00	5:00	·····
			VANE SCHWIEGER		VERSAR			854	53Ø	
-4.0000	; 	118/40	D Cook B. Allmendinger		P.H.A.			9:15	11:13	
			Kain M'GZATH		CWM		·	9-30	10:15	
		18/90	Breg Kork		cwm	· · · · · · · · · · · · · · · · · · ·		2:00	7:10	
		·				i 		!		

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18/90					Arrival	Departure	CALLING ON
	( Weaks	Mendan's		Muth	1230	130	· `\
118/90	In Bern din	Wadtwoff		Carton	100	130	
418/90	MANA ME	١ç				13.	
1/18/90 1	Homas E Cow SR	Cum			7100	1:15	
1/19/40	M. Ke Mulec	Cum	, <u></u>		723	2-	
•	HUMAS E CANSE	Cum			7:00	200	
	Ditre Duriont	Curin			702	150	/
	ARC R Anschoitz	Cum			2:00		
1/19/90 1	Norsek	CRA			7:00	300	
1/10/40 -	J. ARCHIBALD	"			11	130'	
1-1946 1	B, Kriete	unm			Dere	2	·
	SilmeIntyre	cwm		ļ	700		
1.19-90	SreyYork	CWM (000)0760			7:a		
1-19-90	) and R. Wilson	Cwm			7:00		
1-19-30 -	till ki. Tato	Y CWM			700	Zoo	
ri - 7	VAUIT SHWIEGER	J FREAR				SOO	
	ARL G. ROSENATION	5 Kong sorevices			8.00		
	Robert Miller				9:00		
	Itais Wayman D	WINS SERVICE			2is	2.35	
122-90	Bb Kriefs	cuil-			7:07	6:36	
	Bill MEIntyre	Cwm	<u></u>			6:30	
	HARL Durmit	CWAI		 		630	
1-22-40 G	ING ANCHOLIE	CWRI		<u> </u>	7.00	5:30	

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	DATE	NAME		REPRESENTING	STREET ADDRESS	CITY	Time of Arrival	Time of Departure	CALLING ON
	1/2	Jim Archibet		CRA			70	63	
	1/22	Mike Malec		CWM			72	1:30	····
	- المريد/	THUMAS E CAIN JE	Y	Cum			7:00	7:00	
	1.22	Brey jork		CW-M		 	7 `~	6'00	
		Mike MATH:S		Cwm			1:00	4:00	
	1/22/20	TODO D. TEETS	Y	Cwm			70	130	
	1/22/90	PAVE SENAN INGAR		VERSAR			745	600	IN OUT
سر ک	122/70	KARL Respiration	5	Keur		 	8:00	(12:30	5.3) 4.30
	1/2-190	THUMAS E CUIN JE	Y	Cum		   	6:45	6.15	
	1.23.90	CAR R HAXHUETZ		Cunt			1:+5	6:15	
•	1-23-70	Ditil Duritat	<u> </u> 	Cum		1     	645	6.15	
	1-23-10	1 hate		Con	<u> </u>		200	6.15	<u></u>
!	1-25-96	B. M. M. Intyre		CWM	<u></u>		100	6.15	
	1-230	Mike Make		CWM		 		615	
		J. Anhly		CRA	······		·75	645	
	1/23/10	THUR SHUBER		ERSAR		   		600	12 25-
	1 23 90	Kner C. Resonageson	37A	Kaug			8:00	9:30	12:00) 4:30
	1/25/90+	TODO D TEATS	Y	CuIM		       	700	615	
d	1 23/90	Dense (or her	!   	MONR			1:30	5150	
	<u></u>	~~~~					1		
 	154/90	THOMOS E PAIN SE	7	Culm		 	6:50	1.35	
	1-24-90	GHAL R AuscHuitz	• •	CWIM			6.50	6:30	
	1 27-90	PARL DURANT			····	   	65 C	6.30	
	f }		1			l 		:	

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DATE	NAME	CITZE	REPRESENTING	STREET ADDRESS	CITY	Time of Arrival	Time of Departure	CALLING ON	
1-24.40	B:11 METAtyre	Υ.	CWM			1	635		
	100 Texts	Y	CWM			1	10:35		
1-24-90	Job Kret 1		Cresa				6035	- · ·	
1-24-40	Mike Makes		CWM			200	6:35		
1/24/90	Jin Archibld		CRA			700	600		ן : נ
1/24(70	KARL Rosewoopenen	24	Kerry Son	m		8:00	4:30		
	D. Cook B. Allmendinger		D.H.A.			9:12	10.52		
1/24/90	DOUR SCHWIEGER		VARSAR			10:36	ie18		
1/24/92	MARK HENKE		CUM-ENRAC			1035	635		+
1/25/40	Mike Malec		CWM			755	6'5		
	CAR: R HugdlugTZ	-	Cum			7:00	6:05		
	Bob Kriete		cun			1	615		
	Jin Ardibald		CRA			2°	600	;	
25/90	Diarl Durian		Cwin			700	6.05	·	_
. !	THOMAS E CAIN SE	Y	CWM			7100	,15		i
	Too D. TEERS	у	cwm			1 1	65		
	DUE SHWIEGEN	·	VERSAR			745	430		
1-25-90	Her ROSENBERGER	3	Kerry			8:00	420		_
1-26-98	Darl Durant		cum			700	600	·····	
1-26%	Ble Kite		wan		<b></b>	2:00	6:00		_
1/26/93	Jin Archbald		CRA			70	6	1 	_
1/26/90	BOME Linge					72	1:00		
l	CART R Husselveriz	-	<u>cum</u>			7:00	6.0		-

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	DATE	NAME	ditte	REPRESENTING	STREET ADDRESS	СІТҮ	Time of Arrival	Time of Departure	CALLING ON
	1-26	Michael Malee		Cuim			200	1:30	•
	1-26-9	Tow V.Ters	Y	Cum			1700	1:30	
	1/24/20	THIMASE CAN SE	Y	CUM,			7:ω	6:00	
	12690	Tellechup die don	UNA	Myser 4	12-16-1 Ackson	LAPEETZ	0738	0.00	Mitsraz Mike Mitla:
	126 95	KARL G. ROS ON BORLO	2014	(Lein's			8:00	3 30	
	120 40	DUE SCHWIIZGER		VERSAR			9:00	530	
	1bite	Ahr solahing		Verian			9:00	1100	· · · · · · · · · · · · · · · · · · ·
	1/26/46	B Allinending		DHA.			9:30	10.30	
$\sum$	1/26/90	Chuis Miller		ALGIN			1,27	241	
	1-27-90	Dard Durnut		Cum			200	6:30	
	1 1	Gary RANSchotz		cum			700	6:30	
	1/27/90	Jim Ardubald		CPA			730	14 ³⁰	
	11,140	THOMAS : CAIN SE	4	cum			1:00	6:30	
	1/27/90	PATRICK H. ILY DINO	Y	Cum				3:30	
		Dave Schwingmy					1130	430	
		Harry Data		<del></del>			7	300	
	1-2810	THOMAS E CAUN, JR.	Y	CWM			8:00	130	
		CARC . R Argelfretz		cum			8:00	4:00	
	1/28/90	In Addaba		CRA			8	100	
	1/25-90	Darl Durnet		Curr			800	4:00	
		GAPY R Aussellier		Cum			7:00	<b>B</b> 30	
	1	THOMAS & CAIN JR	í (	Cum			r	6:10	
		Darl Durant		JW M		 	700	33)	
	i	Bill ME Intyne	1	Cwm		 	2005	610	
		•	ł			<u> </u>	Į		

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DATE	NAME		REPRESENTING	STREET ADDRESS	CITY	Time of Arrivai	Time of Departure	CALLING ON	
27/98	Bob Krieto	r	cum			2:00	610		)
129/98	LOTA LEETS	Y	CWM			7:00	615		
' [		`	CrA			700	5°*		
	Mike Malec		Cwm			700	615		
1 1	KARL G ROSENROZIER	2	KELLY			8:15	5,30	•	
1	Stene Bunsen		Verson			7:00	00:71		
	Mancen O'Hara		US EPA			10:15	14:15		
	Aline Aluter		(F						
-3090	Bobkride		CUM			7800	5:40		<u> </u>
	GAR AuscHUEIZ		CWAI			7:00	5:30		
•	Darl Duraput		cum			700	5.30		
	TODD TEETS	Y	CWM			700	540		
•	Bill METSER	1	Cwn			7:00	5:20		
	Sterre Bunsen		Versan			7:30	515		
• •	Mike Muler		CUM			700	540		
130 90			Cny			730	5°°		
1 1	KARL ROSENBERGER	242	Kan Sorr	KE 3 -	· ·	8:16	4:70	•	
	THOMAS E CAN SE					7.00	6.00		
								··· .	
1/21/50	140005 E CANJE	<b>ט</b> גַר	CWA		•	7+45	11.00		
1	BII McIstyre		Cwm	•		1	12:00		
	Bob +1+10%		CILM				12:00		
1/52/90		†	CRA			730			
. 1	Toop ( with dy	Y				755	12	<b></b>	
/ /					1	1	1		;

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	DATE	NAME	REPRESENTING	STREET ADDRESS		ne of Time of rival Departure	CALLING ON
	1-31	Mike Maler	Cum		7.	55 112	
	13/.46	DAR & D. mont	CW.4		7	•2 11-	2
	1/3/90	Steve Francia	Usisan		7	20 10:5	)
	1-31	KARLE RESENBACEN	A LAZI SOZULIS		8	100 12:3	¢
	1-31-90	Roy Brees	Joca 959		10	10 20	2
	1.31.90	CHAY AUGURETE	CWM		{	500 1100	F 
	2.2.90	Dolaffity	much Oct the 930	6	8	45 9:95	
<b> </b>	229	Delatt	mil tonton Cil EL 300		/	3025	
	2/5/90	KAPL G, ROSENBORGER	A Kary			-	M:16 4:50
	215/90		Noto hot W. M. I			En 10'2	<u>.</u>
	2/5	Mike MALEC	cum	•	12	:30 530	-
		Tom E. CAIN JR.	C'NM		11	در کی وہ:	
	2/5	TODD TECTS	chim			52	
	2/2	JOINBAILEY	Cwm		ų:	00 5 70	
	23	Den nomber	MONR		<u>د</u> ا	:451:10	: 
$\sim$						: 	•• • ····
	3/6/90	THOMASE CAIN JR	Cun		<u> </u>	30 600	, ;
		Mike Malec	Cun		2	30 600	
		John BAiley	cwm			10 600	
			YCWM		7.	20 1,00	· •
	· · ·	HARL G. ROSENBORER			8	:10 3:00	
	216 Au	J.M. Achbeld	CRA		a	12	
		JOHN BAILTY	CWM		12	0°     عن	
		Mite /Mile	CUN		17	<u>5</u> 52)	
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i	001116	RE	GISTER			4
DATE	NAME	REPRESENTING	STREET ADDRESS	CITY Time of Arrival	Time of Departure	CALLING ON
2/7/90	Jin Archibald	CRA	)     	730	100	
2/2/90	TAM GATIN TR.	CUM		730	1/30	
2/7/98	TOD TEETS	1 CWM	· · · · · · · · · · · · · · · · · · ·	73	520	
2/7/90	KARL ROTAN 36RAM	1 Kerry		8:46	1/202	
					++-	
2/2/20	Toll Teets	Cwn	<u></u>	800	1200	
2/8/40	Mile Malec	LWM	·	800	1205	
$\rightarrow$					.0	· · · ·
7/3/9	R.G. Herescher	LWM		7:00	¥1 65	~
<u>1-3-6</u>	Tim THieldows	Cwm	· · · · · · · · · · · · · · · · · · ·	7:oc	12:30	)
7/3	Dar C Durant	cun	: 	7.0	7 7	
7/3		cun		7:02		<u> </u>
	Steve Bussen	Vusn/cp#	i	7:00	1.	
7/3	Vie to Nache	CRA		7:0		
7/3	CHRIS-SYKES	ewm		0N 710 2 8:20		,,
	/		·			
7/5	R. HERCSCHER	Cum		7:0	33:45	
74	Dreg york	cwn:		7:03	3:30	
7/4	Dari Dumalt	<u>Ċu</u> n		703	3:30	·
1/4	CHEIG 54119	Cum			3.30	
74	Stue Bunsen	l'erear Fet	· · · · · · · · · · · · · · · · · · ·		3.40	
<u>114</u>	TIM THIPSAUD	( um	1	1:40	23:45	
7/4	VIERCE NATHAR	CRA		70	3:45	
			· ·			·

DATE NAME E REPRESENTING STREET ADDRESS	CITY Time of Time of CALLING ON
7/5- R.G. Hansuma CUM	7:10 3:30
1/5 Tim THISBALD CWM	7:00 5
7/5 Darl Durget Cum	7:00 3:30
7/S CHRIS SYKES LWM	7:10
715 Areg York CWM	7:10
7/5 Stene Bungen Verson/594	7:10
2.5 A Quedafor retro	7~
7-5 Victor Nachar CRA	7:00 3:30
7-9 R.G. HERRSCHER CUM	7:00 4:30
7-9 Juin Bires CWM	Tion
7-9 Darl Durment Cuim	700
7-9 GreyYork cwm	7.00
7-9 TIM THICONS CUM	7.00
ng his Syles lum	7:00
7/9 Stine Bunsen Versan/EPA	7:10
719 Victor Nachar CRA	2,10 4:30
1/10 R.G.HERRSCHEN CUM	5:30 5:00
7/10 C. SYIKES CLUM	5:30
710 Arey York Cwm	5:30
7/10 DARL DURANT CWM	530
2/10 Tim Theating com	5:30
710 John Bines CWM.	5.30 5.00

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DATE	NAME	REPRESENTING	STREET ADDRESS	CITY	Time of Arrival	Time of Departure	CALLING ON
7/10	VICTOR NACHAR	CRA			<u>5:3</u> 0	5:00	
7/10	Stare Bunsen	Versan 1EPA			•	5:00	
1/N	1	CUM			530	3:30	
· 7/11	Brey Yor Fi	cwm			5:30		
7/1	Til Thetil	Lum			5: 30		
7/11	REthnigh	cung			<b>5</b> :30	$\downarrow $	
7/11	Ch the	- Cum			F. 30		
"///	John Biro	cum .			يو ؛ک		
7/11	. Steve Bursen	Viron GA			5:30	3:30	
7/ja	R. G. Hereschen	lun			6:00	4:30	
	TIM THIERAND				6:00	4:30	
	DARL SURANIT			5	5.30	(1:30)	
	Q. BIRES			فا	09	4:30	
(	C. SHEES				/	4:30	
7/12	Cr. Your	lans		4	6:00	4:30	
7/12	D. Conten	MDUR		7	10	3.44	$\mathbf{i}$
7/12	VIERR NACHM					4:30	
7/12	Leshe E. Smyh III	MDNX MIGH-CAT				12:15	·
7/12	they firmer	MICH-CAT			רדיר	10:45	
7/12	fin Archibald	CRA		ļ(	):30	4:00	
7/12	Stine Bunson	Versen 1574	· •	6	5:30	4:30	
712	Mi hard Males	Cwn				3;30	
1/13	Timp Theetonia	cum			5:30		
7/13	Chris Saber	CUM				5,°°	
	/						

				REC	SISTER			· 00	01119
	DATE	NAME	CITZEN	REPRESENTING	STREET ADDRESS	СІТҮ	Time of Arrival	Time of Departure	CALLING ON
	7/3	DARL DURANT		Cwm			530	5:00	
	713	Breg York		cwm			5:30	500	
	7/13	Steve Bunsen		Versen/EPA			5:40	5:00	
	7/13	VICTOR HACHAR		CRA			5,30	50-	
	True	Tim ThickALD		CWM			5:30	4:30	
	7/14	DARL BURANT		Cwm			530	4:30	<u>.                                </u>
; <b>,</b>	7/14	Steve Bunsen	<u> </u>	Versan / EAA	· · · · · · · · · · · · · · · · · · ·		5,30	3.85	
	7/,]	Tand Linen		VORSHE/EPA			0530	4:30	
	1/14	CHRUS SYNES		Cun			0537	4:30	
	?714	Sing York		cwm			05:30	4:30	<u></u>
	7/14	Victor Nachan		CRA			5130		<del></del>
	7/14	Chuis Vigt		CWM			6510	! .	
	. /4	JAMES YORK		CWA			05:30	4.30	
	1110	- Tiebur		(w.n			1	2:30	
	7/16	Diarl Durwat		Cwm			6.0	2:30	
_	7/16	this linday		UZISAR EPA			10600		
	7/16	Strey York		CWM			600	2;30	
	7/16	CAKIS SYKES		Chris		· · · · · · · · · · · · · · · · · · ·	6:00	2:30	· .
	714	John Bitts		CWH			(j. au	Z 30	
	7/K	VILTOR NACHAR		CRA			6:00	230	
	1/16	Lusty Hilserter		CWM			10:00	2.30	
+	Miz 1	Tim THIEBAUD		cwm			6.00	2,30	<u> </u>
	- 7/17	John Bines		aun		   	6:00	2:30	
	1/n	CHRIS SYLLES	 	CWM		 	6:00	2:30	
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DATE	NAME	REPRESENTING	STREET ADDRESS	СІТУ	Time of Arrivai	Time of Departure	CALLING ON	1
7-17	Breyfork	cwm			6.00	J:30		
7-17	Darl Durant	CWM			600	2:30		
3.17	ther Linday	VERSAIZ/ EPA			ەرمەنى	2:30		
7.17	VICTOR NACHAR	CRA			0000			
7-17	Russer HERESCHER	lung			600	2:30		
$\overline{}$								
7.18J	Tim THIEBAAD	Cum			6:00	3:00		
7.18	JohnBires	CUM			هنها			
7-18	CARIS SYNGES	CWM	·	· · · · · · · · · · · · · · · · · · ·	50:02		ś	
7-18	Srey York .	CW M			6:00			1
7~18	DARL DurANT.	Caum			600			
7-18	RUSSELL HERPSCHER	CWM			6.00			
7-18	UICTOR TOACHAR	cun			4:00			
ر ۲-۱۶	Tanazia	CWM VERRAR/ EPA			0600			
7.18	VICTOR NACHAR	CRA		_ ~	ŝ	3:00		
1-M -	Tim THIEBAND	CWM			12:25			12 T T
7-19	Victor Nacha	CRA			900	<b>#</b> :30		们
7-19	Jim Archibeld,	CRA			11:45	4:15		
7-19	Paul Lily	sTA.				4:15		
7-24	L'Htenscore	lum			7:15	730-6:	20	t i
7.24	Pril LINGer	Venske/ EPA				2756:3		
7/24	DARL. DurANT	Cwm			1:15	6:30	,	
1/24	Srey York	cwm			1	6:30		a shere
	TIM THIEBAUD	Cum			Ī	6520	<u></u> <u></u>	1.4 R Level
· · · ·	CHRIS SYKES	lun			1	6:30		- I VINC
		/	<u> </u>		<u> </u>	<u>├───</u> ┼───		-17

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N							Time of	Time of	
	DATE		ama	REPRESENTING	STREET ADDRESS	CITY	Arrival	Departure	CALLING ON
	7/24	VIETOR NALVAR		CRA			7:30	6:30	
	7/24	PAUL LINCEY		Verss			7:15	6:30	
	7/24	Deurse Gaben		MONE		<u>    .                                </u>	10:00	2:05	
	1/24	Annen O'Mara		U.S. EPA			10:30	2:05	
	1/25	REHERRSCHER	-	can			6:30	3:30	
	7/25	•		cwm	\$		6.30	$\mathbf{X}$	
	7/25	Grey York		cwm			6:30		
	1/25	T.A. Thulan		cum			6.30		
$\smile$	1/25	CHEUS STRES		ewm			6:30	i /	
	7/25	PAUL LINLEY		Verson			6:30		
	7/25	i i i i i i i i i i i i i i i i i i i		CL4			6:30	330	
	1 7/22	R.G. Herescher					6:30	3:00	
	7/26						6:30		<u> </u>
	7/24	D. DURANT					6:30		
	7/24	G. YOEK					6:30		
	7/26	C. SYRES					6:30		
	7/24	VICTOR NAMME					6:30	1	
	7/26	PAUL LINLEY	:			•	6:30	3:00	
	7/2	Paul LINLOY					7:00	3:30	•
<u>.</u>	1/21	VIEDR NACHAR			) 				
	1/27.	TIM THISAD					$\downarrow$		<u> </u>
	1/27	Daceburnor					$\downarrow$		7
	1/37	Gray Vous					<u> </u>		
•	1/2-	CHR IS SYLCO					7:0	13,30	
		1				-u	 	 	

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DATE	NAME	CTTZEN	REPRESENTING	STREET ADDRESS	СТТҮ	Time of Arrival	Time of Departure	CALLING ON
7/27	R.G. Herseven					7:00	3:30	-
								-
7/30	Tim THIEBOUD CARS SIKES					7.00	3/20	
7/30	CARS SIKES					7:00	3/20 3/30	
								l c
								· ·
								· · · · · · · · · · · · · · · · · · ·
								: :
						i		· · · · · · · · · · · · · · · · · · ·
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APPENDIX D

# DRUM LOG SUMMARY

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### DRUM LOG SUMMARY Rasimussen Immediate Response Action

_RUN	<b>( #</b> /			CONT	AINER				CONTEN	<b>r</b> ts			
SAMP		Size	Туре	Lid	Condition	<u>0/P</u>	Markings	<u>Color</u>	Phase	Description	% Full	<u>Sampled</u>	HNu(ppm)
NEBD /	AREA												
RAS	1	5	S	στ	Р	•	-	gray	solid	paint sludge	50	Y	0
RAS	2	55	5	or	Р	-	•	brown	solid	soil	25	Y	0
RAS	3	55 55	5 S	TO TO	P P	-	-	brown	solid	soil	25	Y	1
RAS RAS	4 5	5	5	or	P	•	-	brown	solid	soil	25	Y	0
RAS	6	55	Š	ŏ	P	-	· ·	brown	solid	soil	empty 25	· Y	2
RAS	7	5	ŝ	στ	P	•	•	-	-		empty	-	2
RAS	8	5	S	σ	P	-	-	brown	solid	soil	100	Y	ī
RAS	9	55	S	στ	P	•	•	gray	solid	soil	50	Y	1
RAS RAS	10 11	55 55	S S	OT OT	P P	•	-	•	-	•	empty	-	0
RAS	12	5	5	or	P	-		brown	solid	peint sludge	75	Ŷ	0 10
RAS	13	<b>Š</b> 5	Š	OT	P	-	•	-	-		empty empty	•	0
RAS	14	55	S	OT	F	Y	•	gray	solid	peint sludge	100	Y	6
RAS	15	55	S	σ	P	•	•	gray	solid	paint sludge	75	Ŷ	25
RAS	16	55	S	OT	P	•	•	black	solid	peint sludge	50	Y	20
RAS	17	55	S	TO	P	•	•	-	-		empty	-	5
RAS	18	55	S	OT	Р	•	-	gray	solid	paint sludge	75	Y	5
RAS RAS	19 20	55 55	S S	or or	P P	•	•	-	- solid	- maint alu dan	empty	•	5
RAS	20	55	S	or	P	-	-	gray gray	solid	paint sludge paint sludge	25 100	Y Y	10 5
RAS	22	55	Š	or	P	•	•	gray	solid	soll	25	Ŷ	2
RAS	23	5	S	or	P	-	-	-	•	•	empty	-	10
RAS	24	55	S	στ	P	-	-	gray	solid	paint sludge	25	Y	10
RAS	25	55	S	στ	P	•	-	gray	solid	paint sludge	25	Y	15
RAS	26	5 5	S	OT	P P	•	•	gray	ŝolid	paint sludge	75	Y	1
RAS RAS	27 28	5	S S	ਾ ਹ	F	:	•	-	solid	paint sludge	empty 75	Ŷ	40 40
S	29	5	S	or	P		-	gray	-	- Parrie stranke	empty	1	1
Š	30	5	S	σī	Ğ	•	-	brown	solid	paint sludge	100	Y	ò
RAS	31	55	S	στ	P	Y	-	black	solid	sludge	50	Y	10
RAS	32	55	S	σ	P	-	•	gray	solid	cinders	50	Y	5
RAS	33	55	S	TO	P	-	-	-	-		empty	•	30
RAS	34 35	55 5	S S	or or	P P	•	•	gray	solid	cinders	50	Y	15 0
RAS RAS	36	5	5	or	P	-	•	black	- solid	sludge	empty 100	Ŷ	30
RAS	37	55	š	ŏ	P	-	-	gr#y	solid	cinders	75	Ŷ	40
RAS	38	55	S	στ	P	•	•	-	-	-	empty	•	5
RAS	39	55	S	or	P	•	-	gray	solid	soil	25	Y	30
RAS	40	55	S	σ	Р	-	•	gray	solid	peint sludge	25	Y	40
RAS	.41	55	S	OT	P	•	•	gray	solid	paint sludge	50	Y	90
RAS	42 43	55 55	S S	or or	P	Y	-	brown	solid solid	sludge soil	50 25	Y Y	30 15
RAS	44	55	S	or	F	Ŷ	•	brown gray	solid	sludge	100	Ŷ	200
RAS	45	5	ŝ	or	P		-	gray	solid	paint sludge	100	Ŷ	7
RAS	46	55	5	or	P	-	-	gray	solid	cinders	50	Y	25
RAS	47	5	S	or	P	-	-	•	•	-	empty	-	6
RAS	48	55	S	σ	P	Y 🛛	•	tan	solid	putty	100	Y	250
RAS RAS	49 50	55 55	5 5	, ਰਾ . ਰਾ	P P	•	•	gray	solid solid	- peint sludge	50 100	Y Y	25 150
RAS	50 51	55 55	5	, or	P	:	•	gray gray	solid	cinders	75	Y	3
RAS	52	5	s	or	P	-	-		-	-	empty	-	50
RAS	53	55	S	or	P		•	brown	solid	paint sludge	75	Y	3
RAS	54	55	S	στ	Р	Y,	•	black	solid	sludge,soil	25	Y	200
RAS	55	55	S	σ	P	•	-	-	-	•	empty	•	100
RAS	56	53	S	or	P		•	brown	solid	soil	25 100	Ŷ	60 50
RAS RAS	57 58	55 55	s s	or or	P P	Y	•	beige	solid	-	empty	Y	50 25
RAS	59	55	5	or	P	-	•	green	solid	paint sludge	50	Ŷ	50
RAS	60	55	ŝ	or	P	-	•	- ·		-	empty	-	30
RAS	61	55	S	στ	F	•	•	gray	solid	peint sludge	75	Y	100
RAS	62	55	S	OT	F	-	•	gray	solid	paint sludge	75	Y	20
RAS	63	55	S	OT	Р	•° '	-	gray	solid	-	25	Y	100
RAS	64	55	S	or	P	-	-	gray	solid	-	75 25	Y Y	20 30
5	65 66	55 55	S S	ਰਾ ਰਾ	P P	•	•	browr	solid -	soil -	45 empty	r -	20
ے۔ RAS	66 67	55 55	5	or	P	-	-	brown	- solid	soil	25	Ŷ	20
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#### TABLE 1

#### DRUM LOG SUMMARY Rasmussen Immediate Response Action

DRU				CONT					CONTEN	UTC .			
	PLEID	Size	Type	Lid	Condition	Q/P	Markings	<u>Color</u>	Phase	Description	<u>% Éull</u>	Sampled	HNu(ppm)
				—								<u>Contractory</u>	(ALL PROVIDE
				στ	P	v		<b>1.1</b> - 1.	الد والد بد	-1			
RAS RAS	68 69	55 55	5 5	or	P	Y •	•	black -	solid -	sludge	100 empty	Y	10 1
RAS	70	55	ŝ	B	P	-	-	•	-	-	empty	-	2
RAS	71	55	S	στ	P	-	-	gray	solid	paint sludge	50	Y	100
RAS	72	55	S	TO	F	•	-	brown	solid	soil	100	Y	30
RAS RAS	73 74	55 55	5 5	or or	P F	-	•	brown	bilo	•	empty	-	5
RAS	75	55	S	or	F		-	brown	solid	soildebris	100 100	Y Y	5 100
RAS	76	55	S	στ	P	•	-	•	-	-	empty	-	15
RAS	77	55	S	στ	P	•	-	brown	solid	•	50	Y	5
RAS	78 79	55 55	S	8 OT	P P	Ŷ	•	•	•	-	empty	•	8
RAS RAS	80	55	S S	or	P	Ŷ		black brown	solid solid	sludge	50 25	Y Y	10 250
RAS	81	55	Š	ŏŤ	P	-	-	gray	solid		50	Ŷ	30
RAS	82	55	Š	B	Р	-	-	a,	•	•	empty	2	5
RAS	83	55	S	B	P	-	-	gray	solid	-	25	Y	40
RAS RAS	54 85	5 55	5 5	or or	P F	-	-	- yellow	solid	- 	empty	- Y	2 5
RAS	86 86		5	or	P	:	•	yellow	\$004	peint sludge	75 empty	I	5 1
RAS	87	55	s	õ	P	•	•	•	-	-	empty	-	1
RAS	88	55	S	В	P	•	-	gray	solid	•	50	Y	30
RAS	89	55	S	B	P	÷	-		•	-	empty	-	50
RAS RAS	90A 90B	55 ( contermi	S nated soil i		P	Y Y	-	black brown	biloz biloz	sludge sludge.soil	50 25	Y Y	25 25
RAS	910)	55	S	OT	P	Ŷ	-	brown	liquid	peint sludge	10	Y Y	30
	91(s)		ntains two		-	-		brown	solid	· ·	40	Ŷ	30
RAS	92	55	S	ੱਹਾ	P	•	-	•	•	•	empty	-	20
RAS	93	55	S	B	F	•	•	white	eoid	•	73	Y	100
RAS RAS	94 95	55 55	S S	or or	P P		-	brown green	solid solid	•	25 25	Y Y	70 70
RAS	<u> </u>	55	Š	ŏ	P	-	-	blue	solid	paint sludge	25	Ŷ	30
RAS	97	55	S	στ	F	•	-	white	solid	powder	100	Y	50
RAS	96	55	S	or	P	Y	•	black	bilos	paint sludge	50	Y	200
RAS RAS	99 100	55 55	5 5	OT OT	P P	•	-	gray black	solid solid	paint sludge	25 25	Y Y	50 20
RAS	101	55 55	S	σ.	P	•	•	gray	solid	sludge	25	Ŷ	20 20
RAS	102	55	S	йr.	P		-	black	solid		50	Ŷ	60
RAS	103	55	S	σ	G	-	-	black	solid	•	100	Y	10
RAS	104	55 55	s s	OT B	P F	-	•	gray	solid North	•	25	Ŷ	60 20
RAS	105(1) 105(s)		ontains two	-	r	Y	-	brown green	liquid solid	-	25 25	Y Y	20 20
RAS	106	55	S	OT	Р	-		-		-	empty	-	30
RAS	107	55	S	10	Р	•	-	-	-	-	empty	-	30
RAS	108	55	S	or	F	-	•	black	solid	-	100	Y	10
RAS RAS	109 110	55 55	5 5	OT B	F	•	-	gray	solid	•	25	Y	40 <u> </u>
RAS	111	5	S	ő	P	-	-	gray	solid	paint sludge	empty 75	Ŷ	5
RAS	112	55	Š	В	F	-	-		•	-		-	20
RAS	113	55	S	B	P	-	-	brown	solid	-	empty 50	Y	30
RAS	114	53	S	B	F	-	•	gray	solid	sludge	50	Y	60
RAS RAS	115 116 -	55 55	S S	OT B	P P	-	•	green gray	solid solid	-	50 50	Y Y	100 6
RAS	117	55	S	őr	P		-	8 <i>7</i>	-	-	empty	-	100
RAS	118	55	Š	B	P	-	-	-	•	-	empty	-	1
RAS	119	5	S	σ	P	-	-	•	-	-	enpty	-	0
RAS	120	55	S	õ	P P	Ŷ	-	black	solid	sludge	empty	- Y	3 100
RAS RAS	121 122	55 55	S S	BOT	P	1 -		black	solid	soil, cinders	50 75	Y	20
RAS	123	52	Š	B	F	•	-	black	solid	•	25	Ŷ	0
RAS	124	55	S	B	·F	•	-	gray	solid	-	50	Y	0
RAS	125	55	5	8	P	-	-	-	•	-	empty	-	0
RAS RAS	1 <b>26</b> 1 <b>27</b>	55 55	5 5	B OT	P F	Ŷ	-	- green	- solid	sludge	empty 75	Ŷ	0 40
RAS	12/	55 55	5	ő	P	-	-	-	-	-	empty	•	10
RAS	129	55	Š	or	Р	-	-	tan	solid	-	73	Y	5
RAS	130	55	S	σ	F	-	-	gray	solid	-	75	Y	2
RAS	131	55	S	or	P		-	-	ي. اولام و	-	empty	-	4
RAS RAS	132 133	55 55	S S	BOT	F F	Y	•	brown gray	solid solid	- paint sludge	25 100	Y Y	60 50
1113	130	33	3	<b>U</b> 1	۲.	-	-	9.41		t 219494		4	~~

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# TABLE 1

# 001126

#### DRUM LOG SUMMARY Rasmussen Immediate Response Action

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~ <i>~ KU</i> A	4#/			CONT	AINER				CONTEN	ITS			
SAMP	PLE ID	Size	Type	144	Condition	<u>0/P</u>	Markings	<u>Color</u>	Phase	Description	% Full	Sampled	<u>HNu(ppm)</u>
							_						
RAS	134	55	5	or	F	•	-	brown	solid	-	75	Y	15
RAS	135	55	S	σ	Р	-	-	•	-	•	empty	-	5
RAS	136	55	S	B	Р	-	-		•	•	empty	-	10
RAS RAS	137 138	55 55	S S	OT OT	F P		•	brown black	solid solid	•	75 50	Y	70
RAS	139	55	S	B	P	•		gray	solid	- peint sludge	50 25	Y Y	10 40
RAS	140	55	S	В	P	-	-	gray	solid	paint sludge	50	Ŷ	20
RAS	141	55	S	OT	F	•	•	gray	solid	paint sludge	75	Ŷ	20
RAS	142	55	5	OT OT	Р	•	-	•	-	•	empty	-	10
RAS RAS	143 144	55 55	S S	B	P P	Ŷ	-	- brown	- bilos	•	empty 50		10
RAS	145	55	Š	B	P	Ŷ	-	-	-	-	empty	Y .	10 60
RAS	146	55	5	OT	F	-	-	black	solid	paint sludge	100	Ŷ	100
RAS	147	55	S	OT	F	-	-	gray	solid	paint sludge	75	Ŷ	20
RAS RAS	148	55 55	S S	OT B	P P	-	-	•	-	•	empty	•	40
RAS	149 150	55	5	B	P	•	-	brown brown	solid solid	•	25 25	Y Y	20 15
RAS	151	55	S	B	P	-	-	-	-	•	empty	-	30
RAS	152	55	S	B	P	Y ·	•	gray	solid	sludge	25	Y	50
RAS	153	55	S	B	F	Y	-	black	solid	•	50	Y	40
RAS	154	5 55	S S	OT OT	P	Ŷ	(1)	gray	bios	pellets, soil	50	Y	5
RAS RAS	155 156	55	5	or	P P	Y Y	•	gray	solid solid	•	50 50	Y Y	•
RAS	157	55	š	ŏ	P		-	gray gray	solid	peint sludge	50	Ŷ	50
RAS	158	55	S	OT	P	٠	•	-	-	·	empty	-	5
RAS	159	55	S	στ	P	•	-	brown	solid	•	75	Y	15
RAS	160	55	5	OT	F	-	•	brown	solid	paint sludge	75	Y	50
RAS RAS	161 16 <b>2</b>	55 55	S S	or of	F F	•	-	gray	solid solid	paint sludge	100 100	Y Y	30 10
RAS	162	55	S	or	P		-	gray	-	-	empty	-	3
3	164	55	S	σī	F	•	-	gray	solid	•	75	Y	50
ن.	165	55	S	В	P	-	-	•	-	-	empty	-	5
RAS	166	55	5	or	F	÷		orange	solid	•	100	Ŷ	10
RAS RAS	167 168	55 55	S	B OT	F	¥ · ·	(2)	gray	solid solid	•	25 75	Y Y	50 30
RAS	169	55	S	В	P		-	gray	-	-	empty	-	40
RAS	170	5	Š	στ	P	-	-	-	-	•	empty		3
RAS	171	55	S	or	F	Y	-	black	liquid	-	75	Y	500
RAS RAS	172	55 55	S S	от от	F P	•	-	brown	solid	•	75 50	Y	20
RAS	173 174	55	5	or	r P	-	-	gray tan	solid solid	:	50 50	Y Y	100 20
RAS	175	55	Š	or	F		-	black	solid	-	50	Ŷ	100
RAS	176	55	S	В	P	•	•	gray	solid	-	25	Ŷ	15
/ RAS	177	55	S	στ	P	-	•	black	solid	-	25	Y	15
RAS RAS	178 179	55 55	5 5	B OT	Р - Р	Ŷ	-	gray black	solid	- sludge	25 25	Y Y	40 20
RAS	180	55	5	or	P	-	-	-	solid	anake	empty	1	15
RAS	181	55	S	B	F		-	-		-	empty	-	10
RAS	1 <b>82</b>	55	S	от	P	-	-	-	•	-	empty	-	5
RAS	183	5	S	or	F	-	-	black	solid	peint sludge	100	Y ·	10
RAS	184 185	55 55	S S	B B	P F	Ŷ	-	- gray	- solid	sludge	empty 25	Ÿ	5 20
RAS	186	55	S	8	F	-	-	black	solid	-	75	Ŷ	5
RAS	187	55	S	στ	F	•	-	-	•	•	empty	-	20
RAS	188	55	S	στ	F	•	-	tan	solid	-	50	Y	10
RAS	189	55	5 5	OT	F	-	-	red	solid	-	75	Y	30
RAS RAS	190 191	55 55	5	OT B	P F	•	-	- brown	- solid		enpty 25	Ŷ	20 5
RAS	192	55 55	S	or	Р	-	-	-	-	•	empty	-	5
RAS	193	55	S	OT	P	•	-	white	solid	-	50	Y	20
RAS	194	55	S	В	P	•	-	gray	solid	-	50	Y	20
RAS .	195	55	S	ਰਾ	P	•	-	tan	solid rolid	paint siudge paint sludge	50 50	Ŷ	20
RAS RAS	196 197	55 55	S S	or or	P P	•		green black	solid solid	peint sludge	50 75	Y Y	10 5
RAS	198	55	5	or or	P	-	•	gray	solid	paint sludge	75	Ŷ	30
RAS	199	55	S	В	Р	-	-	black	solid	•	10	Y	30
3	200	55	S	σ	P	-	-	gray	solid	paint sludge	75	Y	30
. <u>.</u>	201	55	S	B	F	•	-	green	solid	-	50 25	Y Y	20 5
RAS	202	55	S	στ	Р	•	•	green	solid	-	6	1	3

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#### DRUM LOG SUMMARY Rasmussen Immediate Response Action

SAMPLELD         Size         Type         Lat         Constitution         Que         Markings         Cale         Place         Description         Security         Security	DRUA	{#/			CONTA	INER				CONTEN	ITS				
RAS       233       95       5       OT       P       .       .       party       redid       .       75       Y       8         RAS       233       85       5       OT       P       .       .       party       redid       .       75       Y       6         RAS       237       85       5       OT       P       .       .       party       redid       .       .53       Y       7         RAS       237       85       5       OT       P       .       .       party       redid       .       .53       Y       7       4         RAS       239       5       5       OT       P       .       .       party       redid       party       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .	SAMP	LE ID	Size	Type	Lid	Condition	Q/P	Markings	<u>Color</u>			<u>% Full</u>	Sampled	HNu(ppm)	
RAS       204       SS       S       OT       P       .															
RAS 204 SS S GT P grvg skid	RAS	203		5	OT	Р	•	•	black	solid	•	50	Y	5	
RAS       264       38       5       OT       P       .       .       prov       statu       .       .       37         RAS       227       83       5       OT       P       .       .       brown       statu       .       .       231       Y       15         RAS       228       83       5       OT       P       .       .       brown       statu       .       .       7       4         RAS       221       5       5       OT       G       .       .       prov       statu       .       .       .       .       .       .       .       .       .       .       prov       statu       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .							-	-	gray		-				
RAS       227       SS       S       OT       P       .       .       perform       solid       .       10       Y       10         RAS       200       S       S       OT       G       .       .       prov       solid       .       10       Y       10         RAS       200       S       S       OT       G       .       .       prov       solid       .       .       move       .       .       move       .       .       move       .       .       .       move       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .				-			-	-			-		Y	6	
RAS       208       35       5       8       P       .       .       permine       setable       .       10       Y       10         RAS       200       5       5       OT       P       .       .       permine       setable       100       Y       4         RAS       210       5       5       OT       P       .       .       permine       setable       100       Y       4         RAS       213       55       5       OT       P       .       .       permine       setable       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .							-	-			-				
RAS       209       \$       \$       OT       \$       -       -       -       mpry       isin       isin       Y       4         RAS       211       \$       \$       \$       OT       \$       -       -       mpry       isin       isin </th <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th>-</th> <th></th> <th></th> <th></th> <th>•</th> <th></th> <th>-</th> <th></th> <th></th>					-		-				•		-		
RAS       210       S       9       0.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1 <th1.1< th=""> <th1.1< th=""> <th1.1< th=""></th1.1<></th1.1<></th1.1<>							-	•			- neint skudze				
RAS       Z11       S       Off $P$ -       -       gray       solid       paint slogge       S0       Y       30         RAS       Z21       SS       S       Off       P       -       -       paints       paint slogge       73       Y       30         RAS       Z21       SS       S       Off       P       -       -       bitck       exidit       -       rint slogge       73       Y       30         RAS       Z21       SS       S       Off       P       -       -       bitck       exidit       -       rint slogge       73       Y       30         RAS       Z216       SS       S       Off       P       -       -       bitck       exidit       -       30       Y       40         RAS       Z218       SS       S       Off       P       -       -       bitck       exidit       -       30       Y       30         RAS       Z218       SS       S       Off       P       -       -       bitck       exidit       -       23       Y       30         RAS       Z220       SS	RAS		5	S			-	-	•		• •				
RAS       213       SB       S       OT       P       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       . </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>-</th> <th>•</th> <th>gray</th> <th>solid</th> <th>paint sludge</th> <th>50</th> <th>Y</th> <th></th> <th></th>							-	•	gray	solid	paint sludge	50	Y		
RAS       214       SS       S       OT       P       . <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>-</th> <th>-</th> <th></th> <th></th> <th>•</th> <th></th> <th></th> <th></th> <th></th>							-	-			•				
RAS       215       55       5       OT       F       -       beige       solid       -       100       Y       #         RAS       216       53       5       OT       F       -       black       solid						-	-	•	yellow		•	-	-		
RAS       2216       95       5       OTT       P       -       black       reduld       paint studge       70       Y       00         RAS       221       35       5       OTT       P       -       -       black       sedid       -       73       Y       2         RAS       220       35       5       OTT       P       -       -       black       sedid       -       50       Y       5         RAS       220       35       5       OTT       P       -       -       brown       sedid       -       237       Y       5         RAS       221       95       5       OT       P       -       -       prov       sedid       codd       237       Y       30         RAS       223       5       5       OT       P       -       -       prov       sedid       codd       23       Y       30         RAS       224       25       5       OT       P       -       -       prov       sedid       paint studge       23       Y       30         RAS       228       5       OT       P       -<								-	heire		-				
RAS       217       53       5       OT       F       -       black       exide       iteration       75       Y       2         RAS       218       53       5       OT       P       Y       -       black       exide       -       50       Y       3         RAS       2203       (construented soil from ZDA)       Y       -       bitwom       exide       -       50       Y       3         RAS       2203       (construented soil from ZDA)       Y       -       bitwom       exide       -       20       Y       3         RAS       2203       33       5       OT       P       -       -       provem       exide       -       20       Y       30         RAS       224       S3       S       OT       P       -       -       provem       exide       -       23       Y       30         RAS       224       S3       S       OT       P       -       -       gravy       exide       -       25       Y       20         RAS       225       S3       S       OT       P       -       -       gravy <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th>-</th><th></th><th></th><th></th><th>naint sludge</th><th></th><th></th><th></th><th></th></td<>							-				naint sludge				
RAS       218       55       5       07       F       .       .       brown       exild       .       75       Y       2         RAS       220A       55       5       07       P       Y       .       bike       tiquid       .       50       Y       5         RAS       2217       53       5       07       F       .       .       bike       tiquid       .       25       Y       5         RAS       2237       53       5       07       F       .       .       brown       exidd       paint fluidge       77       Y       30         RAS       2238       5       07       F       .       .       brown       exidd       .       25       Y       30         RAS       2244       53       5       071       P       .       .       brown       exidd       .       25       Y       30         RAS       2245       53       5       071       P       .       .       gray       exidd       .       21       Y       20         RAS       2245       53       5       071       P	RAS	217	55	\$	στ	F	-	•					-		
RAS       220A       S       S       OT       P       Y       .       prove       exist       .       constantisate differed 20A       Y       .       prove       exist       exist       empty       exist       exist       z       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S				-			-	-	brown	solid	."				
RAS       2208       (contaminated coll from 220A)       Y       's words       stall       3       S       Y       's         RAS       221       SS       S       OT       P       -       -       -       -       empty       -       30         RAS       221       SS       S       OT       P       -       -       -       -       empty       -       30         RAS       223       S       S       OT       P       -       -       -       -       -       23       Y       30         RAS       223       S       S       OT       P       -       -       gray       redid       -       23       Y       30         RAS       224       S       S       OT       P       -       -       gray       redid       -       23       Y       20         RAS       221       S       S       OT       P       -       -       gray       redid       -       23       Y       20         RAS       221       S       S       OT       P       -       -       gray       redid       -       10				-				-			•				
RAS       221       S       S       OT       P       -       -       permit wells       patrixinding       73       Y       130         RAS       223       5       5       OT       P       -       -       gray       wells       -       235       Y       30         RAS       224       S       S       B       P       Y       -       brown       wells       -       25       Y       30         RAS       224       S       S       S       OT       P       -       -       gray       wells       soil       23       Y       30         RAS       225       SS       S       OT       P       -       -       gray       wells       soil       -       50       Y       20         RAS       225       S       OT       P       -       -       gray       wells       -       75       Y       20         RAS       224       SS       S       OT       P       -       -       gray       wells       -       75       Y       20         RAS       224       SS       S       OT       P<				-		Р					-				
RAS       222       35       5       OT       P       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       . </th <th></th> <th></th> <th>•</th> <th></th> <th></th> <th>F</th> <th></th> <th>_</th> <th>-</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>			•			F		_	-						
RAS       223       5       5       0       P       -       -       gray       solid       -       225       Y       30         RAS       224.4       (contaminated coll bro224.4)       Y       -       brown       solid       -       25       Y       30         RAS       224.8       (contaminated coll bro224.4)       Y       -       brown       solid       -       25       Y       30         RAS       224.8       S       S       OT       P       -       -       gray       solid       -       25       Y       30         RAS       220       SS       S       OT       P       -       -       gray       solid       -       25       Y       20         RAS       220       S       S       OT       P       -       -       gray       solid       -       25       Y       20         RAS       221       S       S       OT       P       -       -       gray       solid       -       25       Y       30         RAS       224       S       S       OT       P       -       -       black       <				-			-	-			-				_
RAS       ZAA       SS       S       B       P       Y       -       brown       Lepsid       -       25       Y       30         RAS       ZZAS       SS       S       OT       P       -       -       brown       solid       -       25       Y       30         RAS       ZZAS       SS       S       OT       P       -       -       brown       solid       -       25       Y       30         RAS       ZZAS       SS       S       OT       P       -       -       gray       solid       -       25       Y       30         RAS       ZZAS       S       S       OT       P       -       -       gray       solid       -       -       25       Y       10         RAS       ZZAS       S       S       OT       P       -       -       gray       solid       -       25       Y       10         RAS       ZZAS       S       S       OT       P       -       -       black       solid       -       25       Y       20         RAS       ZZAS       SS       S       OT	RAS	223	5	S	στ	P	-	-	gray	solid	-				-
RAS       225       55       9       OT       P       .       .       brown       reside       .       .       25       Y       250         RAS       227       55       5       OT       P       .       .       gray       reside       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .				-		P		-			-	25	Ŷ		
RAS       226       35       9       077       P       .        prove weith        50       Y       50         RAS       227       55       5       077       P         prove weith        75       Y       20         RAS       228       55       5       077       P         grave       solid        75       Y       20         RAS       220       5       5       077       P         grave       solid       paint sludge       25       Y       10         RAS       231       5       5       077       P         black       solid         77       Y        10       Y                 Y          Y                 Y          Y        <						-	+				soil				
RAS       227       93       5       OT       P       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -<				-			•	-			-				
RAS       228       93       S       OT       P       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       - </th <th></th> <th></th> <th></th> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td>÷ •</td> <td></td> <td>- naint shudwe</td> <td></td> <td></td> <td></td> <td></td>							-	-	÷ •		- naint shudwe				
RAS       220       5       5       OT       P       .       .       .       prove       solid       public       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .				-			-	•							
RAS       231       5       5       OT       P       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       . <th>-</th> <th></th> <th>-</th> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td>gray</td> <td>solid</td> <td>-</td> <td>25</td> <td>Ŷ</td> <td></td> <td></td>	-		-				-	-	gray	solid	-	25	Ŷ		
RAS       232       5       S       OT       P       .       .       black       exitid       .       77       Y       7         RAS       235       55       5       0       T       P       .       .       black       exitid       .       100       Y       .         RAS       235       55       5       0       T       P       .       .       beige       exitid       .       100       Y       40         RAS       235       55       5       0       T       P       .       .       beige       exitid       .       100       Y       40         RAS       236       55       5       0       T       P       .       .       beige       exitid       .       75       Y       120         RAS       240       53       5       0       T       P       .       .       biack       exitid       .       50       Y       120         RAS       240       53       5       0       T       P       .       .       gray       exitid       .       50       Y       .       .			-				-	-			peint sludge				
RAS       233       S3       S       OT       C       Y       -       black       endid       -       100       Y       400         RAS       234       S3       S3       S       OT       P       -       black       endid       -       100       Y       400         RAS       235       S3       S       OT       P       -       -       black       exitd       -       10       Y       400         RAS       237       30       S       OT       P       -       -       black       exitd       -       25       Y       200         RAS       237       30       S       OT       P       -       -       black       exitd       -       25       Y       200         RAS       238       S5       S       OT       P       -       -       gray       solid       -       50       Y       -       200         RAS       241       S5       S       OT       P       -       -       gray       solid       -       50       Y       -       -         RAS       242       S5       S							-	-			-				
BAS       224       53       5       B       P       Y       -       marrown       solid       -       10       Y       40         RAS       235       53       5       OT       P       -       -       beige       solid       -       225       Y       40         RAS       236       53       5       OT       P       -       -       beige       solid       -       25       Y       40         RAS       238       53       5       OT       P       -       -       beige       solid       -       25       Y       200         RAS       238       53       5       OT       P       -       bisck       solid       -       75       Y       100         RAS       240       55       5       OT       P       -       -       gray       solid       -       50       Y       20         RAS       241       5       5       OT       P       -       gray       solid       -       50       Y       -         RAS       241       5       5       OT       P       -       gray							Ŷ	-							
RAS       236       53       5       OT       P       -       -       beige bilds       solid solid and solid       -       25       Y       60         RAS       237       30       5       OT       P       -       bildsk       solid       -       25       Y       40         RAS       236       55       5       OT       P       -       bildsk       solid       -       25       Y       200         RAS       236       55       5       OT       P       -       bildsk       solid       -       75       Y       120         RAS       236       55       5       OT       P       -       -       gray       solid       -       50       Y       20         RAS       241       55       5       OT       P       -       -       gray       solid       -       50       Y       -         RAS       243       5       5       OT       P       -       -       gray       solid       -       25       Y       -         RAS       246       5       5       OT       P       -       -								-			-				
RAS       237       30       S       OT       G       Y       -       yellow       solid       -       235       Y       230         RAS       238       53       S       OT       P       -       -       beige       solid       -       75       Y       120         RAS       238       53       S       OT       P       -       -       gray       solid       -       50       Y       100         RAS       240       53       S       OT       P       -       -       gray       solid       -       50       Y       20         RAS       241       S       S       OT       P       -       -       gray       solid       -       50       Y       -         RAS       242       S3       S       OT       P       -       -       gray       solid       -       50       Y       -         RAS       244       S       S       OT       P       -       -       gray       solid       -       25       Y       -         RAS       246       S       S       OT       P       -<	RAS	235			OT		-	-	beige	bilot	-				
RAS       228       55       5       OT       P       -       -       beige beige beige solid       -       75       Y       120         RAS       239       5       5       OT       P       -       -       beige solid       -       50       Y       100         RAS       240       55       5       OT       P       -       -       gray solid       -       50       Y       20         RAS       241       55       5       OT       P       -       -       gray solid       -       50       Y       -         RAS       242       55       5       OT       P       -       -       gray solid       paint sludge solid       -       50       Y       -         RAS       245       5       5       OT       P       -       -       gray solid       paint sludge solid       -       25       Y       -         RAS       246       5       5       OT       P       -       -       barcon       acmpt y       -       -       -       -       -       -       -       -       -       -       -       -       - <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th></th> <th>soil, cinders</th> <th></th> <th></th> <th></th> <th></th>								-			soil, cinders				
RAS       299       5       S       OT       P       .       .       black       solid       .       50       Y       100         RAS       240       55       S       OT       P       .       .       gray       solid       .       50       Y       100         RAS       240       55       S       OT       P       .       .       gray       solid       .       50       Y       20         RAS       242       55       S       OT       P       .       .       gray       solid       .       50       Y       .         RAS       243       55       S       OT       P       .       .       gray       solid       .       50       Y       .         RAS       246       S       S       OT       P       .       .       gray       solid       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       <				-							•				
RAS       240       55       S       OT       P       -       -       gray       solid       -       50       Y       50         RAS       241       55       5       6       F       -       -       orange       injuid       -       50       Y       20         RAS       242       55       5       OT       P       -       -       black       solid       -       50       Y       -         RAS       243       55       5       OT       P       -       -       gray       solid       -       50       Y       -         RAS       245       5       S       OT       P       -       -       gray       solid       -       25       Y       -         RAS       246       5       S       OT       P       -       -       marroon       solid       -       25       Y       -         RAS       248       5       S       OT       P       -       -       gray       solid       -       25       Y       -         RAS       250       55       OT       P       -       - <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th></th> <th></th> <th>•</th> <th></th> <th></th> <th></th> <th></th>							-				•				
RAS       241       53       5       8       F       -       -       orange       liquid       -       50       Y       20         RAS       242       55       5       OT       P       -       -       black       solid       -       50       Y       -         RAS       243       55       5       OT       P       -       -       gray       solid       -       50       Y       -         RAS       244       5       5       OT       P       -       -       gray       solid       paint.debris       100       Y       -         RAS       246       5       5       OT       P       -       -       maxoon       solid       -       25       Y       -         RAS       246       5       S       OT       P       -       -       brown       solid       -       25       Y       -         RAS       249       55       S       OT       P       -       -       brown       solid       -       25       Y       60         RAS       251       55       S       OT       P							-	-	-		•				
RAS       243       55       S       OT       P       -       -       gray       solid       -       50       Y       -         RAS       244       5       5       OT       P       -       -       gray       solid       paint.debris       100       Y       -         RAS       245       5       5       OT       P       -       -       gray       solid       paint.debris       100       Y       -         RAS       246       5       5       OT       P       -       -       gray       solid       -       25       Y       -         RAS       246       5       5       OT       P       -       -       brown       solid       -       25       Y       -         RAS       248       5       5       OT       P       -       -       gray       solid       -       25       Y       -         RAS       251       55       5       OT       P       -       -       black       solid       -       10       Y       3         RAS       251       55       5       B       F		241	55		В	F	-	-			•				
RAS       244       5       5       OT       P       -       -       gray       solid       paint.studge       50       Y       -         RAS       245       5       5       OT       P       -       -       gray       solid       -       25       Y       -         RAS       246       5       S       OT       P       -       -       marcoon       solid       -       25       Y       -         RAS       247       5       S       OT       P       -       -       brown       solid       -       25       Y       -         RAS       248       5       S       OT       P       -       -       brown       solid       -       25       Y       -         RAS       250       55       S       OT       P       -       -       brown       solid       -       10       Y       3         RAS       251       55       S       OT       P       -       -       brown       solid       -       10       Y       3         RAS       251       55       S       OT       P       <							•	-	black	solid	•		Y	•	
RAS       245       5       5       OT       P       -       -       gray       solid       putt sludge       50       Y       -         RAS       246       5       5       OT       P       -       -       marcoon       solid       -       25       Y       -         RAS       246       5       5       OT       P       -       -       brown       solid       -       25       Y       -         RAS       248       5       5       OT       P       -       -       -       -       -       empty       -       60         RAS       249       55       5       OT       P       -       -       -       -       -       25       Y       -       -       60         RAS       251       55       5       OT       P       -       -       brown       solid       -       10       Y       3         RAS       251       55       5       OT       P       -       -       black       solid       -       25       Y       2         RAS       253       5       OT       P				-		-	-	-			•			•	
RAS       246       S       S       OT       P       -       -       maroon       solid       -       25       Y       -         RAS       247       5       S       OT       F       -       -       brown       solid       solid       73       Y       -         RAS       248       5       S       OT       P       -       -       brown       solid       -       25       Y       -         RAS       249       55       S       OT       P       -       -       -       empty       -       60         RAS       250       53       S       OT       P       -       -       gray       solid       -       10       Y       3         RAS       251       53       S       OT       P       -       -       black       solid       -       10       Y       3         RAS       251       55       S       OT       P       -       -       black       solid       -       10       Y       7         RAS       255       S       OT       P       -       -       red       solid		-	-		-	-	•	•						<b></b>	1
RAS       247       5       5       OT       F       -       -       brown       solid       solid       solid       77       Y       -         RAS       248       5       S       OT       P       -       -       -       25       Y       -         RAS       249       55       S       OT       P       -       -       -       -       eenpty       -       60         RAS       249       55       S       OT       P       -       -       -       -       eenpty       -       60         RAS       250       55       S       OT       P       -       -       gray       solid       -       10       Y       50         RAS       251       53       S       OT       P       -       -       brown       solid       -       10       Y       3         RAS       253       S       OT       P       -       -       black       solid       -       10       Y       3         RAS       253       S       OT       P       -       -       red       solid       -       25							-	-			pant sidage			-	
RAS       248       5       S       OT       P       -       -       black       solid       -       25       Y       -         RAS       249       55       5       OT       P       -       -       -       empty       -       60         RAS       250       55       5       OT       P       -       -       -       50       Y       50         RAS       251       55       5       OT       P       -       -       brown       solid       -       10       Y       3         RAS       253       5       OT       P       -       -       black       solid       -       10       Y       3         RAS       253       5       S       OT       P       -       -       black       solid       paint sludge       50       Y       7         RAS       255       55       S       OT       P       -       -       red       solid       -       25       Y       2         RAS       257       53       S       OT       P       -       -       red       solid       solid <t< th=""><th></th><th>_</th><th>-</th><th></th><th></th><th></th><th>-</th><th>•</th><th></th><th></th><th>soil</th><th></th><th></th><th>-</th><th></th></t<>		_	-				-	•			soil			-	
RAS       250       53       S       OT       P       -       -       gray       solid       -       50       Y       50         RAS       251       55       S       OT       P       -       -       brown       solid       -       25       Y       60         RAS       252       55       S       OT       P       -       -       black       solid       -       10       Y       3         RAS       253       S       OT       P       -       -       black       solid       -       10       Y       3         RAS       253       S       S       T       P       -       -       white       solid       paint shudge       50       Y       7         RAS       255       55       S       OT       P       -       -       green       solid       paint shudge       25       Y       2         RAS       257       53       S       OT       P       -       -       etcl       solid       -       25       Y       2         RAS       257       53       S       OT       P       -			5	-	••	•	•	-	black	solid	•	25		-	
RAS       251       55       S       OT       P       -       -       brown       solid       -       25       Y       60         RAS       252       55       S       OT       P       -       -       brown       solid       -       10       Y       3         RAS       253       S       S       OT       P       -       -       black       solid       -       10       Y       3         RAS       253       S       S       OT       P       -       -       black       solid       paint sludge       50       Y       7         RAS       256       S       S       OT       P       -       -       white       solid       paint sludge       50       Y       7         RAS       257       55       S       OT       P       -       -       red       -       25       Y       2         RAS       257       55       S       OT       P       -       -       red       solid       -       25       Y       2         RAS       258       55       S       OT       P       -							-	-			-				
RAS       252       55       5       OT       P       -       -       black       solid       -       10       Y       3         RAS       253       5       5       OT       P       -       -       black       solid       -       50       Y       5         RAS       253       5       5       S       OT       P       -       -       white       solid       paint sludge       50       Y       7         RAS       255       55       5       OT       P       -       -       green       solid       paint sludge       25       Y       2         RAS       256       5       5       OT       P       -       -       red       solid       -       25       Y       2         RAS       258       55       5       OT       P       -       -       edid       solid       -       25       Y       2         RAS       258       55       5       OT       P       -       -       black       solid       solid       paint sludge       50       Y       10         RAS       260       55							-				•				
RAS       253       5       OT       P       -       -       black       solid       -       50       Y       5         RAS       254       55       S       B       F       -       -       white       solid       paint sludge       50       Y       7         RAS       255       55       S       OT       P       -       -       green       solid       paint sludge       25       Y       2         RAS       256       S       S       OT       P       -       -       red       solid       -       25       Y       2         RAS       257       53       S       OT       P       -       -       red       solid       -       25       Y       2         RAS       258       55       S       OT       P       -       -       black       solid       -       25       Y       2         RAS       259       55       S       OT       P       -       -       greaty       solid			33 68				•				•				
RAS       254       55       S       B       F       -       -       while       solid       paint sludge       50       Y       7         RAS       255       55       S       OT       P       -       -       green       solid       paint sludge       25       Y       2         RAS       256       S       S       OT       P       -       -       red       solid       -       25       Y       2         RAS       257       58       S       OT       P       -       -       red       solid       -       25       Y       2         RAS       257       58       S       OT       P       -       -       -       exploy       -       30         RAS       258       55       S       OT       P       -       -       gray       solid       solid       solid       solid       solid       solid       paint sludge       50       Y       10         RAS       260       55       S       OT       P       -       -       black       solid       paint sludge       75       Y       10         RAS<															
RAS       255       55       5       0       P       -       -       green       solid       paint shudge       25       Y       2         RAS       256       5       5       0       T       P       -       -       red       solid       -       25       Y       2         RAS       257       53       5       0       T       P       -       -       -       -       empty       -       30         RAS       258       55       5       0       T       P       -       -       -       -       empty       -       30         RAS       258       55       5       0       T       P       -       -       gray       solid       -       25       Y       2         RAS       259       55       5       0       T       P       -       -       gray       solid       solid <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th></th> <th></th> <th>paint studge</th> <th></th> <th></th> <th></th> <th></th>							-				paint studge				
RAS       257       53       S       OT       P       -       -       -       -       empty       -       30         RAS       258       55       5       OT       P       -       -       black       solid       -       25       Y       2         RAS       259       55       5       OT       P       -       -       gray       solid       sc'.       50       Y       2         RAS       259       55       5       OT       P       -       -       gray       solid       sc'.       50       Y       30         RAS       260       55       5       OT       P       -       -       gray       solid       paint sludge       50       Y       10         RAS       262       55       5       OT       P       -       -       gray       solid       paint sludge       75       Y       20         RAS       263       55       5       OT       P       -       -       brown       solid       foam       50       Y       8         RAS       264       55       5       OT       P							-	-	green		paint sludge	25	Y	2	
RAS       258       55       5       OT       P       -       -       black       solid       -       25       Y       2         RAS       259       55       5       OT       P       -       -       gray       solid       solid<			5				-				•			5	
RAS       259       55       S       OT       P       -       -       gray       solid       paint sludge       50       Y       30         RAS       260       55       S       OT       P       -       -       black       solid       paint sludge       50       Y       10         RAS       261       55       S       OT       P       -       -       gray       solid       paint sludge       50       Y       10         RAS       262       55       S       OT       P       -       -       brown       solid       paint sludge       75       Y       20         RAS       264       55       S       OT       P       -       -       -       empty       -       9         RAS       264       55       S       OT       P       -       -       brown       solid       -       10       Y       60         RAS       266       55       S <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th></th> <th></th> <th>-</th> <th>empty</th> <th></th> <th>30</th> <th></th>							-				-	empty		30	
RAS       260       55       S       OT       P       -       -       black       solid       paint sludge       50       Y       10         RAS       261       55       S       OT       P       -       -       gray       solid       paint sludge       50       Y       10         RAS       261       55       S       OT       P       -       -       gray       solid       paint sludge       75       Y       10         RAS       262       55       S       OT       F       -       -       lavender       solid       paint sludge       75       Y       20         RAS       263       53       S       OT       P       -       -       brown       solid       fosan       50       Y       8         RAS       264       55       S       OT       P       -       -       -       empty       -       9         RAS       264       55       S       OT       P       -       -       brown       solid       -       10       Y       60         RAS       266       55       S       B       P			55				-				- -			2 30	
RAS       261       55       5       OT       P       -       -       gray       solid       paint_mags       25       Y       100         RAS       262       55       5       OT       F       -       -       iavender       solid       paint_mags       25       Y       100         RAS       262       55       5       OT       F       -       -       iavender       solid       paint_mags       25       Y       100         RAS       262       55       5       OT       P       -       -       brown       solid       paint_mags       25       Y       20         RAS       264       55       S       OT       P       -       -       brown       solid       foam       50       Y       60         RAS       266       55       S       B       P       -       -       green       solid       -       10       Y       60         RAS       266       55       S       B       P       -       -       green       solid       -       25       Y       30         RAS       268       55       S </th <th></th> <th></th> <th>55</th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>			55				-								
RAS       262       55       S       OT       F       -       -       lavender       solid       paint studge       75       Y       20         RAS       263       53       S       OT       P       -       -       brown       solid       foam       50       Y       8         RAS       264       55       S       OT       P       -       -       -       empty       -       9         RAS       266       55       S       OT       P       -       -       -       empty       -       9         RAS       266       55       S       OT       P       -       -       -       empty       -       9         RAS       266       55       S       B       P       -       -       green       solid       -       10       Y       60         RAS       267       5       S       OT       P       -       -       gray       solid       -       25       Y       30         RAS       268       55       S       OT       P       -       -       gray       solid       debris       50 <th></th> <th></th> <th>55</th> <th>S</th> <th></th> <th>P</th> <th>-</th> <th></th> <th></th> <th></th> <th>paint, rags</th> <th></th> <th></th> <th></th> <th></th>			55	S		P	-				paint, rags				
RAS       264       55       S       OT       P       -       -       -       -       empty       -       9         RAS       265       55       S       OT       P       -       -       brown solid       -       10       Y       60         RAS       266       55       S       B       P       -       -       green       solid       -       10       Y       60         RAS       266       55       S       B       P       -       -       green       solid       -       25       Y       30         RAS       267       5       S       OT       P       -       -       gray       solid       paint sludge       50       Y       20         RAS       268       55       S       OT       F       -       -       gray       solid       debris       50       Y       40			55			F	-	•	lavender		paint sludge		Y	20	
RAS       265       55       S       OT       P       -       -       brown       solid       -       10       Y       60         RAS       266       55       S       B       P       -       -       green       solid       -       25       Y       30         RAS       267       5       S       OT       P       -       -       green       solid       paint sludge       50       Y       20         RAS       268       55       S       OT       F       -       -       gray       solid       debris       50       Y       40			55				-								
RAS         266         55         S         B         P         -         -         green         solid         -         25         Y         30           RAS         267         5         S         OT         P         -         -         gray         solid         paint sludge         50         Y         20           RAS         268         55         S         OT         F         -         gray         solid         debris         50         Y         40			33 52				•		-			anpry 10			
RAS         267         5         S         OT         P         -         -         gray         solid         paint sludge         50         Y         20           RAS         268         55         5         OT         F         -         -         gray         solid         debris         50         Y         40							-				•				
RAS 268 55 S OT F - gray solid debris 50 Y 40							-		-		paint sludge				
RAS 269 55 S OT P - brown solid - 25 Y -	RAS	268		5		F	-	-		solid			Y		
	RAS	269	55	S	OT	P	•	•	prown	solid	-	25	Y	•	

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#### DRUM LÖĞ SUMMARY Resmussen Immediate Response Action

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	- KUN	( # /			CONT	AINER				CONTEN	JTS			
	SAMP		Size	Type	Lid	Condition	o/r	Markines	Color	Phase	<u>Description</u>	% Full	<u>Sampled</u>	HNu(ppm)
			_		—			·····					<b>CHARGE IN CONTRACT</b>	<u>Interport</u>
	RAS	270	55	s	στ	P	Y	_		solid	metal cuttings	50	~	
	RAS	271	55	S	or	P	:	-	gray gray	solid	soil	50 25	Y Y	50 30
	RAS	272	55	S	στ	Р	-	-	lavender	solid	peint sludge	25	Ŷ	30
	RAS	273	55	S	8	P	-	-	red	solid	•	25	Y	6
	RAS RAS	274 275	55 55	S S	от ОТ	F G		-	brown black	solid solid	debris hard	75 100	Ŷ	0
	RAS	276	55	S	or	F	-	-	purpie	solid	-	50	Y Y	5 5
	RAS	277	55	S	στ	P	-	<b>-</b> 1	gray	solid	•	25	Ŷ	7
	RAS	278	55	S	σ	Р	• .	• :	gray	solid	debris	25	Y	10
	RAS RAS	279 280	55 55	5 5	or or	G P	-		gray	solid solid	hard peint sludge	100	Y	15
	RAS	280 281	55	S	or	P		-	green brown	solid	pant studge	50 75	Y Y	20 2
	RAS	282	55	s	στ	P	-	-	brown	solid	•	25	Ŷ	5
	RAS	283	55	S	στ	G	-	-	beige	solid	foam	75	Ŷ	10
	RAS	284 285	55 55	S S	OT B	P P	-	-	black	solid	-	25	Y	5
	RAS RAS	286		S	ហ	P	Ŷ	-	marcon	solid solid	peint sludge	25 50	Y Y	50 50
	RAS	287	55	ŝ	ŏ	P	:		gray gray	solid	debris	25	Ŷ	0
	RAS	288		, green sol	id in shap	e of 55 gallon dr	ധന)		green	solid	hard	25	Ŷ	ō
	RAS	289	55	S	or	F	-	•	beige	solid	debris	75	Y	0
	RAS RAS	290 291	55 55	S S	BOT	P P	•	-	black	- solid	•	empty	-	0
	RAS	292	55	5	or	P		(3)	DIECK	-	-	50 empty	Y ·	0
	RAS	293	55	S	στ	P	•	•	brown	solid	• •	50	Ŷ	ō
	RAS	294	55	S	στ	P	-	-	brown	solid	-	25	Y	0
	RAS	295 207	55 55	S	BOT	P P	•	-	•	•	•	empty	•	0
	RAS RAS	296 297	55 55	5 5	or	P P	-	•	orange	- solid	- debris	empty 50	Ŷ	0 1
	RAS	298	55	š	ŏ	P	-	•	green	solid	-	25	Ŷ	ò
	RAS	299	55	S	OT	Р	-	•		•	•	empty	-	ō
	7	300	30	S	στ	Р	•	-	•	•	-	empty	-	0
,	RAS RAS RAS RAS RAS RAS RAS RAS RAS RAS	301 302 303 304 305 306 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325	30 30 30 55 30 55 30 55 30 55 30 55 30 55 30 55 30 55 55 30 55 55 30 55 55 30 55 55 30 55 55 30 55 55 55 30 55 55 55 55 55 55 55 55 55 55 55 55 55	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5555 <b>8</b> 55558855555555555555555555555555	<b>₽₽₽₽</b> ₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽	Y Y Y - - - - - - - - - - - - - - - - -	(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	blue, pink blue, pink blue, pink blue, pink red blue, pink brown orange brown olack black black black orange black gray brown blue, pink blue, pink blue, pink	solid solid solid solid - solid solid solid solid solid solid solid solid solid solid solid solid solid solid solid solid	sludge sludge sludge - - - sludge - - - - - - - - - - - - - - - - - - -	50 50 50 50 50 50 50 50 50 50 50 50 50 5		0 0 0 8 1 1 0 0 3 0 0 1 1 10 1 3 0 3 0 0 0 0 0
	RAS	326	. 30	S	σ	₽ ₽ ₽ ₽	Y.	(4)	blue,pink	solid	sludge	50	Ŷ	0
	RAS RAS	327 328	30 30	5 5	OT OT	Р Р	Y '' Y	(4)	blue,pink blue,pink	solid solid	sludge sludge	50 50	Y Y	0
	RAS	329	30	S	στ	P	Y Y	(4)	blue,pink	solid	sludge	50	Y	0
	RAS	330	55	S	σ	P	- '	•	gray	solid	soil	25	Y	1
	RAS	331 332	55 55	S S	or or	P P	•	•	black brown	solid solid	- soil	25 25	Y Y	40 2
	فدر	333	55	5	of	P	•		-	-	-	empty	•	Ó
	RAS	334	30	S	στ	P	-	(4)	•	-	•	empty	-	20

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#### TABLE 1

# DRUM LOG SUMMARY

**Rasmussen Immediate Response Action** 

DRU	M#/	CONTAINER CONTENTS							TS				
	PLE ID	Size	Type	134	Condition	<u>O/P</u>	Markings	<u>Color</u>	Phase	Description	<u>% Full</u>	Sampled	HNu(ppm)
										•			
RAS	335	30	S	or	Р		(4)	blue	solid		25	Y	0
RAS	336	30	Š	ŎŤ	P	-	(4)	blue	solid	-	25	Ŷ	0.
RAS	337	55	S	OT	P	-	-	•	•	-	empty	-	0
RAS	338	30	5	or	Р	•	(4)	blue	solid	•	25	Y	0
RAS	339 340	30 5	5 5	or or	P G	-	(4)	•	•	-	empty	-	0
RAS RAS	341	55	5	or	P	-	•	black	solid	•	empty 50		0
RAS	342	30	S	or	P	-	(4)			-	empty	Y -	2
RAS	343	30	Š	OT	P	•	(4)	blue	solid	sludge	50	Ŷ	1
RAS	344	30	S	στ	P	-	(4)	blue	solid		25	Y	2
RAS	345	30	5	ਹਾ	P	-	(4)	orange	solid	•	50	Y	0
RAS RAS	346 347	55 55	S S	BOT	P P	•	-	brown	solid	•	empty	-	2
RAS	348	30	5	or	P	:	-	blue	solid	:	25 25	Y Y	6 5
RAS	349(1)	55	ŝ	σī	F	•	-	brown	liquid		10	Ŷ	100
	349(s)	( drum co	ntains tw	o phases)				black	solid	-	10	Ŷ	100
RAS	350	55	S	OT	P	•	-	green	solid	•	25	Y	12
RAS	351	30	5	or	P	Y	(4)	blue,pink	solid	siudge	50	Y	0
RAS RAS	352 353	55 55	S	OT OT	F P	•	•	gray black	solid solid	•	50	Y	1
RAS	354	30	5	or	P		(4)	blue	solid	•	50 25	Y Y	0
RAS	355	30	S	οī	Ğ		(4)	blue	solid	•	100	Ŷ	ö
RAS	356	55	S	στ	Р	•	•	black	solid	sludge	25	Ŷ	ŏ
RAS	357	55	5	OT	P	-	-	black	solid	•	25	Y	3
RAS	358	55	S	or	P P	-	-	··· ·	-		empty	-	0
RAS RAS	369 360	55 55	S	ਾ ਹ	P	:	-	black black	solid solid	sludge	25 50	Y Y	3 3
RAS	361	55	Š	or or	P	Y	•	red	solid	sludge	25	Ŷ	300
RAS	362	55	S	σ	P	Ŷ	-	black	solid		25	Ŷ	20
RAS	363	55	S	σ	P	-		brown	solid	soil	50	Y	10
RAS	364	55	5	ot	P	-	-	green	solid	-	25	Y	3
RAS RAS	365 366	55 55	S S	B OT	P P	•	•	• •	solid	•	empty	•	10
RAS	367	55	S	or	P	-	•	brown brown	solid	•	25 25	Y Y	4 3
RAS	368	30	Š	or	P	•	(4)	blue	solid	sludge	25	Ŷ	õ
RAS	369	55	S	or	Р	•	-	brown	solid	-	25	Ŷ	ō
RAS	370	55	S	στ	G	•	•	gray	solid	•	50	Y	0
RAS	371	55	S	OT	Р	•		gray	solid	-	25	Y	2
RAS RAS	372 373	30 55	S S	OT OT	P P	•	(4)	blue,pink black	solid solid	sludge	25 25	Y Y	1 10
RAS	374	55	S	or	P	-	-	black	solid	sludge	25	Ŷ	0
RAS	375	55	Š	or	P	-		-			empty		ŏ
RAS	376	55	Š	στ	P	-	-	brown	solid	-	25	Y	ō
RAS	377	30	S	σ	P	-	(4)	-	•	•	empty	-	0.
RAS	378	55	S	8	G	-	•	black	solid		75	Y	0
RAS RAS	379 380	55 30	S	or or	P P	-		brown	solid	rags, debris	25 25	Y	1 O
RAS	381	30 5	5 5	or	P	-	(4)	blue,pink	solid -	-	empty	Y -	0
RAS	382	5	s	or	F	-		black	solid		50	Y	ō
RAS	383	55	S	στ	Р	-	-	black	solid	-	75	Y	1
RAS	384	30	S	σ	P	-	(4)	blue,pink	solid	-	25	Y	10
RAS	385	30	S	OT OT	P	•	(4)	blue,pink	solid	•	50 25	Y	0
RAS RAS	386 387	30 30	5 S	OT	P P	Ŷ	(4) (4)	blue,pink blue,pink	solid solid	sludge	25 50	Y Y	0
RAS	388	55	S	B	P			black	solid	sludge	50	Ŷ	ŏ
RAS	389	55	ŝ	ŏ	P	-		-	-		empty	-	õ
RAS	390	55	S	OT	P	-	-	brown	solid	-	25	Y	0
RAS	391	55	S	or	P	•	-	orange	solid	•	50	Y	1
RAS	392A	55	S 	OT	P	Y	-	brown	solid colid	resin coll	50 25	Y	400
RAS RAS	392B 393	( contarrú 55	nated soil S	from 392A) OT	) P	Y -	-	brown gray	solid solid	resin, soil	25 25	No Y	a
RAS	393 394	55	5	or	P		•	brown	solid	-	25	Ŷ	1
RAS	395	55	Š	ŏ	P	•	-	gray	solid	•	50	Ŷ	3
RAS	396	55	S	OT	P	•	•	beige	solid	rage	50	Y	10
RAS	397	55	S	or	P	•	•	purple	solid	•	50	Y	10
RAS	396	55	S	OT	P	•	-	beige	solid	-	25	Y	5
RAS RAS	399 400	55 55	S S	OT OT	P P	•	-	gray brown	solid solid	-	50 25	Y Y	5 1
RAS	400	55 55	5	or	P		-	black	solid	-	25	r Y	0
1.7.10				~.	-							•	-

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#### DRUM LOG SUMMARY Resonassen Immédiate Response Action

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URUN	/			CONT	AINER				CONTEN	rrs			
	PLE ID	Size	Type	Lid	Condition	<u>0/P</u>	Markings	<u>Color</u>	Phase	Description	<u>% Full</u>	Sampled	<u>HNu(ppm)</u>
RAS	402	55	5	στ	P	-	-	black	solid	_	25	Y	٨
RAS	403	55	Š	or	P	-	-	-	-	-	empty	1	0
RAS	404	55	S	στ	P	•	•	beige	solid	-	75	Y	Č .
RAS	405	5	S	σ	P	•	•	prowu	solid	•	50	Y	0
RAS	406	55 5	5 5	or or	P	-	-	- brown		-	empty	-	0
RAS RAS	407 408	55	5	B	P G	•	•	brown	solid solid	•	50 25	Y Y	10
RAS	409	55	Š	ਹੱ	P		•	gray	solid	sludge	50	Y	5 3
RAS	410	55	5	ÖT	P	-	-	brown	solid		25	Ŷ	7
RAS	411	55	S	or	P	•	•	gray	solid	-	25	Ŷ	20
RAS	412	55	5	OT	P	•	-	brown	solid	•	25	Y	100
RAS RAS	413 414	55 55	S P	OT B	P P	•	•	red black	solid solid	debris	25 25	Y	10
RAS	415	55	P	8	P	:	-	brown	solid	debris	25	Y Y	6 10
RAS	416	55	S	or	P	-	•	green	solid		25	Ŷ	5
RAS	417	55	5	В	P	•	•	-	-	-	empty	-	4
RAS	418	55	S	σ	P	•	-	brown	solid	soil	25	Y	1
RAS	419	55	5	or	Ğ	Y	-	white	solid	powder	75	Y	10
RAS RAS	420 421	55 55	S S	TO TO	P P	•	-	brown	solid solid	•	25 25	Y Y	30 10
RAS	422	55	Ş	ਗ਼	F		-	gray black	solid		75	Ý.	2
RAS	423	30	ŝ	OT	P	-	-			-	empty	•	ō
RAS	424	55	S	σ	P	-	-	gray	solid	-	25	Y	10
RAS	425	55	S	στ	G	•	-	gray	solid	soil	100	Y	2
RAS	426	55	S	or	F	•	•	gray	solid	•	50	Y	10
RAS RAS	427 428	55 55	S S	OT OT	P P	-	•	gray	solid -	rage -	50	Y -	7
RAS	429	55	S	or	P		-	дтау	- bilot	-	empty 25	Ŷ	10
RAS	430	55	Ś	B	F	-	•	amber	liquid	-	25	Ŷ	10
TAS	431	55	S	στ	P	•	-	brown	bilot	-	25	Y	2
	432	55	S	σ	P	•	-	brown	solid	•	25	Y	6
1	433 434	55 55	5 S	OT OT	P P	-	•	gray	solid	-	25 25	Ŷ	6
RAS RAS	435		5	or	, P	•	(5)	gray gray	solid solid	•	25	Y Y	10 10
RAS	436	55	ŝ	or	P	-	-	black	solid	-	50	Ŷ	2
RAS	437	55	5	OT	P	•	-	black	solid	rubbery	25	Ŷ	500
RAS	438	55	S	or	P	•	-	brown	solid	•	25	Y	60
RAS	439	55	S	or	P	•	-	gray	solid	•	25	Y	10
RAS RAS	440 441	55 55	S P	OT OT	P P	•	-	black	bilot	•	empty 50	Ŷ	10 7
RAS	442	55	S	or	P		-	gray	solid	-	25	Ŷ	20
RAS	443	55	Š	σ	P	•	-	gray	solid	-	25	Ŷ	10
RAS	444	30	S	στ	P	-	-	•	-	-	empty	•	5
RAS	445	30	S	or	P	•	-	-	-	•	empty	•	30
RAS	446	5 55	S 5	от ОТ	Р F	•	. •	gray black	solid solid	paint sludge	50 50	Y Y	10 4
RAS RAS	447 448	55	5	or	P		•	DUICK	3000	-	empty	-	10
RAS	449	55	S	ŏ	P	-	-	brown	biloe	soil	25	Y	10
RAS	450	55	S	στ	P	<b>-</b> 1	-	black	solid	sludge	25	Y	10
RAS	451	55	S	στ	P	-	•	black	solid	•	25	Y	2
RAS	452	55	5	or	P	<b>.</b>	•	rust	solid	-	25 25	Y	20
RAS RAS	453 4 <b>54</b>	55 55	S S	OT OT	P P	-	-	white red	solid solid	-	25 50	Y Y	200 40
RAS	455	55	5	or	P	-	•	brown	solid	-	25	Ŷ	7
RAS	456	55	S	στ	P	-	<b>-</b> ·	black	solid	-	25	Y	40
RAS	457	55	S	OT	G	Y -	-	brown	solid	-	25	Y	10
RAS	458	55	S	στ	P	Y	-	brown	solid	-	25	Y	20
TW AR	EA												
RAS	459	55	5	στ	Р	<b>-</b> ·	-	brown	solid	soil	25	Y	1
RAS	460	55	ŝ	or	P	<b>.</b> .	-	gray	solid	•	25	Y	5
RAS	461	55	S	στ	F	•	-	gray	solid	rags	100	Y	300
RAS	462	55	S	OT	P	•	-	gray	solid	•	50	Y	30
E 15	463	55 55	S	OT	P F	-	•	brown	solid	-	empty 75	· Y	1000 3
<b>NAŚ</b>	464 465	55 55	S S	OT OT	F	-	-	gray	solid	-	75	Ŷ	2
RAS	465	55	Š	В	P	-	-	gray	solid	soil	50	Ŷ	8
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#### TABLE 1

# DRUM LOG SUMMARY

Rasmussen Immedia	te Response Action
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DRUA	4 # 1			CONTAI	VER				CONTEN	TC			
	<u>LE ID</u>	Size	Type		Condition	<u>O/P</u>	Markines	<u>Color</u>	Phee	Description	% Full	Sampled	<u>HNu(ppm)</u>
													and Brickline
RAS	467	55	S	or	P	-		black	solid	sludge	50	Y	-
RAS	468	55	S	or O	P		-	brown	solid		25	Y	5 2
RAS	469	55	S	В	P	•	-	gray	solid	-	25	Ŷ	3
RAS	470	55	S	or	F	•	-	blue	solid	-	25	Ŷ	1
RAS	471	55	S	B	F	-	•	red	solid	-	25	Y	1
RAS	472	55	S	or	P	-	-	gray	solid	-	25	Y	5
RAS	473	55	S	B	P	•	-	black	solid	•	25	Y	400
RAS	474	55	S	or	P	•	•	gray	solid	-	25	Y	40
RAS RAS	475 476	55 55	S S	or or	P P	•	•	black	solid.	-	25	Y	100
RAS	477	55	S	or	F	•	-	gray	solid. solid	sludge	25 75	Y Y	1
RAS	478	55	Š	or	P	Ŷ	-	gray brown	solid	aludge	25	Y	0 2
RAS	479	55	Š	OT	P			black	solid		50	Ŷ	ō
RAS	480	55	S	or	G	-	•	gray	solid	hard	100	Ŷ	5
RAS	481	55	S	В	P	-	-		-	•	empty	-	100
RAS	482	55	S	В	Р	-	•	gray	solid	-	50	Y	30
RAS	483	55	S	or	P	•	•	brown	solid	-	100	Y	3
RAS	484	55	S	B	P	•	•	gray	solid	-	25	Y	400
RAS	485	55	S	or	G	•	•	brown	solid	-	25	Y	3
RAS RAS	486 487	55 55	S S	B OT	P P	-	-	gray	<b>solid</b>	-	25	Ŷ	5
RAS	467		S	(fragments)		-	•	black	solid	•	25	Y .	2 2
RAS	489	55	S	OT OT	P	-	-	black	solid	-	empty 50	Ŷ	2
RAS	490	55	Š	or	P	-	-	brown	solid	-	25	Ŷ	1
RAS	491	55	S	or	P	-	•	brown	solid	-	50	Ŷ	9
RAS	492	55	S	OT	P	-	•	•	•	-	empty	•	2
RAS	493	55	S	or	P	•	•	rust	solid	rage	25	Y	200
RAS	494	55	5	or	P	•	•	•	•	-	empty	•	10
RAS	495	55 55	5 5	OT OT	P	-	•	-	<del>ہ</del> اسالیہ	•	empty	÷	2
RAS RAS	496 497	55	5	or	F P	-		brown brown	solid solid	soli	50 25	Y Y	0
RAS	498	55	S	or	P		-	brown	solid	-	25	Ŷ	1
RAS	499	55	Š	B	P	-	•	gray	solid	-	25	Ŷ	400
RAS	500	55	ŝ	Őr	P	-	•	gray	solid	-	25	Ŷ	1000
RAS	501	55	S	OT	P	Y		brown	solid	reein	25	Ŷ	7
RAS	502	55	S	σ	P	Y	-	biack	solid	sludge	75	Y	1000
RAS	503	55	S	or	P	Y	•	black	solid	sludge	75	Y	7
RAS	504	55	S	B	r	•	-	black	solid	sludge	50	Ŷ	10
RAS	505	55	S	σ	P	Y	•	white	solid	powder	75	Ŷ	20
RAS	506	55 55	S S	OT OT	P P	•	•	brown	solid Mai	 - 14	50	Y	30
RAS RAS	507 508	55	S	or	r P	•	•	gray brown	solid solid	soil	50 75	Y Y	8
RAS	509	55	5	B	P	-	-	black	solid	sludge	25	Ŷ	600 **
RAS	510	55	Š	Ő	P	-	-	gray	solid		75	Ŷ	10
RAS	511	55	Š	or	P	-			•	•	empty	-	3
RAS	512	55	5	В	P	-	-	brown	solid	rags	50	Y	3
RAS	513	55	S	or	P	-	•	gray	solid	-	50	Y	3
RAS	514	55	S	σ	P	-	•	brown	solid	-	50	Y	1000
RAS	515	55	5	or	F	•	-	black	solid	•	100	Y	7
RAS	516	53 55	S	01 01	P	-	-	-	•	-	empty	-	10 9
RAS RAS	517	55 55	S S	or	P P	-	-	black	solid	-	empty 75	Ŷ	4
RAS	518 519	55 55	5	B	P	•	•	gray	solid	•	75 50	Y Y	3
RAS	520	55	ŝ	å	P	-	-	black	solid	-	75	Ŷ	4
RAS	521	55	Š	or	P	-	-	black	solid	-	75	Ŷ	2
RAS	522	55	Š	σī	P	-	-	gray	solid	-	50	Ŷ	4
RAS	523	55	Ś	σ	P	-	-	•.	•	-	empty	-	0
RAS	524	55	S	or	P	•	-	•	-	•	empty	-	1
RAS	525	55	S	ot	P	•	-	•	-	-	empty	-	0
RAS	526	55	S	or	P	•		-	-	-	empty	-	0
RAS	527	55	S	or	P	-	· •		•	-	empty	-	o
RAS	528	55	S	or C	G	•	•	red Maria	solid	<b>raga</b> aluataa	100	Y	2
RAS RAS	529 530	53 55	S	or B	P P	-	•	black	solid -	aludge	25	Y -	1
RAS	530 531	30 55	5	8	P	-	-		solid	soil	empty 50	- Y	0 7
RAS	531 532			o hape of 55 ga		•	-	gr y brown	solid	herd		Ŷ	0
RAS	533	( no aram 55	source in s	OI.	P	-		b own	solid	-	50	Ŷ	1
RAS	534	55	Š	or	P	-	•	black	solid	sludge	50	Ŷ	i
RAS	535	55	S	or	P	•	-	-	•	•	empty	-	1
				-							••		

# 001132

#### DRUM LOG SUMMARY Rasmussen Immediate Response Action

	IM #/ CONTAINER								CONTEN	rts			
	PLE ID	Size	Type	Liz	Condition	<u>0/P</u>	Markings	<u>Color</u>	Phase	Description	% Full	. <u>Sampled</u>	HNu(ppm)
RAS	536	55	S	στ	P	•	-	brown	solid	debris	50	Y	1
RAS	537	55	S	or	Р	-	-	rust	solid	raga	50	Y	100
RAS RAS	538 539	55 55	S S	OT B	P F	-	-	blue	solid	rags	50	Y	2
RAS	540	- 55 - 55	5	ਹਾ	P	-	•	red vellow	solid solid	-	75 25	Y	2
RAS	541	55	Š	ਰ	F			brown	solid	-	25 75	Y Y	3 10
RAS	542	55	ŝ	OT	P	-	-	beige	solid	•	50	Ŷ	1
RAS	543	55	S	( badly o	crushed)	-	-	•	•	-	empty	-	ż
RAS	544	55	S	OT	P	•	-	black	solid	•	75	Y	1
RAS	545	55	S	(badly o		-	-	pink	solid	-	50	Y	1
RAS	546 547	55 55	S S	B OT	P	• .	-	gray	solid		25	Y	3
RAS RAS	547	55	S	or	P P		•	black	solid	rubbery	25	Y	3 6
RAS	549	55	s	or	P		-	gray	solid		empty 50	Ŷ	1000
RAS	550	55	Š	OT	P	-		brown	solid	raga	50	Ŷ	3
RAS	551	55	S	στ	Р	•	-	purple	solid		50	Ŷ	80
RAS	552	55	5	В	Р	•	-	•	-	•	empty	-	2
RAS	553	55	S	σ	P	-	•	•	•	•	empty	-	1
RAS	554	55	S	OT	P	-	•	purple	solid	•	50	Y	300
RAS	555 556	55 55	S S	or or	F P	-	-	brown	solid	•	75	Y	10
RAS RAS	556 557	55	S	B	P	•	•	:	-	-	empty	-	2 2
RAS	558	55	S	őr	P		•	brown	solid	-	empty 75	Ŷ	1
RAS	559	55	ŝ	στ	P		-	-		-	empty		10
RAS	560	55	5	8	P	-	-	•	-	-	empty	-	5
RAS	561	55	5	στ	P	-	•	-	-	-	empty	•	2
RAS	562	55	S	στ	F	-	•	gray	solid	-	50	Y	0
RAS	563	55 55	5 5	or or	P P	•	-	beige	soiid	•	75	Y	1
RAS RAS	564 565	55	5	or	F	•	•	black	solid	sludge	empty 75	· Y	0
3	566	55	S	or	P			brown	solid	auuge	75	Ŷ	20
نى	567	55	Š	or	P	-	-	brown	solid	debris	75	Ŷ	10
RAS	568	55	5	В	P	•	•	•	•	•	empty	-	2
RAS	569	55	S	8	P	•	•	•	•	-	empty	-	1
RAS	570	55	S	σ	P	-	-	brown	solid	soil	50	Y	1
RAS	571	55	S	or	Р	-	-	black	solid		100	Y	2
RAS RAS	572 573	55 55	S S	or or	P F	:	•	varied	- solid	-	empty 100	· Y	2 6
RAS	573 574	55	S	or	P			varied	solid	rags rags	100	Y	30
RAS	575	55	Š	or	P		-	brown	solid	soil, rags	75	Ŷ	1
RAS	576	55	Š	8	F	-	-	brown	solid	-	100	Ŷ	3
RAS	577	55	S	στ	Р	•	-	rust	solid	•	75	Y	10
RAS	578	55	S	OT	P	•	•	gray	solid	-	75	Y	1
, RAS	579	55	S	or	F	•	-	gray	solid	plastic liner	50	Ŷ	2
RAS	580 581	55 55	s s	B OT	F P	•	•	red brown	solid solid	-	75 75	Y Y	1
RAS	582	55	S	or	F			gray	solid	rags -	100	Ŷ	ő
RAS	583	55	Š	or	P	•	-	brown	solid	•	25	Ŷ	ō
RAS	584	55	S	B	Р	-	•	brown	solid	-	25	Y	0
RAS	585	55	S	σ	P	•	•	-	-	-	empty	•	1
RAS	586	55	S	OT	P	•	•	•	•	•	empty	-	1
RAS	587	55	S	OT	P	•	•	- 1	- امالم	•	empty 75	· Y	0 5
RAS RAS	588 589	5 55	S S	or or	P P	-	-	black	solid	-	75 empty		0
RAS	590	55	Š	ŏ	P	Ŷ	•	white	solid	-	75	Y	ŏ
RAS	591	55	ŝ	õ	P		•	gray	solid	-	25	Ŷ	30
RAS	592	55	5	or	P	•	•	· ·	-	•	empty	-	5
RAS	593	55	S	στ	P	•	•	•	•	-	empty	-	1000
RAS	594	55	S	OT	P	•	-	varied	solid	raga	50	Ŷ	500
RAS	595	55 55	S	OT	P	•	. *	pink bester	solid solid	•	25 25	Y Y	10 8
RAS RAS	596 597	55 55	S 5	OT B	P P	-	•	brown brown	solid	soil	<u>50</u>	Ŷ	3
RAS	598	55	5	őr	P	-	-	-	-	-	empty	-	1
RAS	599	55	S	ŏ	P	-	•	gray	solid	- -	25	Y	4
RAS	600	55	Š	or	P	-	•	gray	solid	-	25	Y	100
RAS	601	55	S	στ	P	-	-	brown	solid	•	25	Y	6
•	602	55	5	or	P	-	•	black	solid	rags	75	Y	20
د. عداد	603	55 55	S S	B	P	-	•	gray	solid	soil	50 100	Y Y	10 60
RAS	604	23	2	στ	P	•	•	brown	solid	rags	100		00

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#### DRUM LOG SUMMARY Rasmussen Immediate Response Action

DRU	A#/			CONT	AINER				CONTEN	NTS			
SAME	LE ID	Size	Time	Lid	Condition	<u>O/P</u>	Markings	Color	Phase	Description	% Full	Sampled	HNu(ppm)
RAS	605	55	s	στ	P			black	solid				
RAS	606	55 55	S	or	P	:	•	black	solid solid	-	50	Y	1
RAS	607	55	Š	ŏ	P	-		gray	solid	sludge	50 50	Y Y	3
RAS	608	55	ŝ	ŏŤ	P		-	gray	ecild	siudge	50 25	Y	10
RAS	609	55	Š	В	P	-		•••	solid	mouge	23 50	-	1
RAS	610	55	Š	σŤ	P		-	gray gray	solid	•	50	Y Y	7
RAS	611	55	š	ŏŤ	P	-		gray	solid	•		Y	6
RAS	612	55	Š	ŏ	P	-		gray	solid	•	50	Y	10 10
RAS	613	55	S	õr	P			black	solid	-	75	Ŷ	2
RAS	614	55	S	or	P	•		black	solid	-	75	Ŷ	4
RAS	615	55	s	or	P				-	plastic liner	empty		7
RAS	616	55	ŝ	or	F			black	solid	Passed when	100	Ŷ	10
RAS	617	55	S	B	P	-		-	-	-	empty	-	300
RAS	618	55	ŝ	σī	P		•	blue	solid	siudge	50	Ŷ	400
RAS	619	55	Ŝ	σī	P	-	•	brown	solid		50	Ŷ	8
RAS	620	55	Š	οī	P	-		white	solid	-	75	Ŷ	7
RAS	621	55	Ŝ	Ő	P		-	gray	solid	rage	50	Ŷ	5
RAS	622	55	S	σī	P			red	solid	rags	50	Ŷ	7
RAS	623	55	ŝ	σ	P	-	-	gray	solid		75	Ŷ	20
RAS	624	55	S	OT	P	•	•	gray	solid	nga	75	Ŷ	5
RAS	625	55	S	В	P	-	•	brown	solid		75	Ŷ	30 1
RAS	626	55	Ś	ŌT	P	•	-	brown	bilot	-	25	Ŷ	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
RAS	627	55	S	στ	P		-	black	solid		50	Ŷ	5
RAS	628	55	5	σ	P	-	•	•	-	•	empty	-	3
RAS	629	55	Ś	OT	P	-	-	black	solid	-	75	Y	10
RAS	630	55	S	OT	P	-	-			-	empty	-	3
RAS	631	55	S	σ	P		· -	black	solid		50	Y	4
RAS	632	55	S	στ	P	•	-	-	-	-	empty	-	60
RAS	633	55	S	στ	Р	-	-	-	-	-	empty	-	20
RAS	634	55	S	σ	P	-	-	gray	solid	-	25	Y	1000
RAS	635	55	S	B	P	-		biack	solid	-	25	Ŷ	200
RAS	636	55	S	В	P	•	•	purple	solid	-	75	Y	40
RAS	637	55	S	B	P	•	-	• -	-	•	empty	-	6
RAS	638	55	5	ΟΤ	P		•	black	solid	-	25	Y	4
RAS	639	55	S	8	P	•	-	٠	-	-	empty	•	20
RAS	640	55	S	or	P	-	-	gray	solid	soil	25	Y	100
RAS	641	55	S	or	P	•	-	brown	solid	•	75	Y	5
RAS	642	55	S	OT	P	•	-	black	solid	-	75	Y	10
RAS	643	55	5	8	P	•	-	gray	solid	-	25	Y	4
RAS	644	55	S	στ	P	-	•	black	solid	rage	25	Y	1
NEBD /	AREA												
RAS	645	55	S	or	F	•	-	gray	solid		75	Y	2 🗸
RAS	646	55	S	σī	P	•	-	•	-	-	empty	:	7
RAS	647	55	S	στ	P	-	-	•	-	•	empty	-	3
RAS	648	55	ŝ	οŤ	P	•	-	•	-	-	empty	· • .	3
RAS	649	55	s	or	P	•	•		-		empty	-	Ō
RAS	650	55	Ŝ	στ	P	-	-	-	-	•	empty	-	ī
RAS	651	55	S	or	P	-	-	-	-		empty	-	7
	-	-		-									

LEGEND

SLZE	(in gallons)	MARKINGS	(1) DuPont
TYPE	S - steel		(2) Dow Chemical - LA
	P - plastic		(3) Gliddon
LID	OT - open top drum		(4) NP National Polychemicals Inc.
	B - bung type drum		Wilmington Mass.
CONDITION	G-good	•	(5) Cyanamid
	F - fair		
	P - poor		
O/P	Overpacked(Y - Yes)		

**DOCUMENT #979 CONTINUED IN VOLUME 4** 

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