

SDMS 98205015

Lompoc Drums
Assessment and Removal Action
Lompoc, California



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Technical Assistance Team

SDMS 88205015

Lompoc Drums
Assessment and Removal Action
Lompoc, California

TDD No.
T099006-006

PAN No.
TCA1457-RFA

Submitted to:

William E. Lewis
Deputy Project Officer
U.S. Environmental Protection Agency
Region IX - Emergency Response Section

Prepared by:

Ecology and Environment, Inc.
Technical Assistance Team

July 1990

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International Specialists in the Environment

July 20, 1990

U.S. Environmental Protection Agency
211 Main Street
San Francisco, CA 94105

Ref. No.: T190790-005
TDD No.: T099004-006
PAN No.: TCA1457-RFA

Attention: William E. Lewis, Deputy Project Officer

Subject: **Lompoc Drums, Assessment and Removal Activities, Lompoc, CA**

Submitted herewith is a report on Technical Assistance Team activities at the Lompoc Drums assessment and removal action in Lompoc, Santa Barbara County, California.

Report format and content was coordinated with On-Scene Coordinator K. McCarty.

If you have any further questions regarding this summary report, please do not hesitate to contact this office.

Sincerely,

Randy Randall
Technical Assistance Team Member

Attachments

cc: K. McCarty
File

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1.0 INTRODUCTION

On March 23, 1990, Santa Barbara County Health (SBCH) officials notified the Environmental Protection Agency (EPA) Emergency Response Section (ERS) about a site near Lompoc, California containing an estimated 5000 gallons of plating waste. Drug Enforcement Agency (DEA) and Santa Barbara County Sheriff's Department (SBCSD) officials discovered the plating waste during a raid on March 16, 1990. It was reported that DEA contracted a Los Angeles based disposal firm to remove chemicals associated with the drug lab and relayed the plating waste findings to SBCH. SBCH investigated and completed a partial inventory before contacting EPA. Appendix A contains preliminary information forwarded by SBCH. The Technical Assistance Team (TAT) was tasked by EPA to respond and assess site conditions. Site findings resulted in an extended site assessment (SA) and subsequent EPA removal action. This report details both the SA findings, conducted under Technical Directive Document (TDD) T099003-012, and removal activities completed under TDD T099004-006.

2.0 SITE ASSESSMENT

2.1 Background

Assistant TAT Leader C. Benson and TAT members R. Randall and R. Wise met SBCH representative M. Schmailing at the site at 0800 hours on March 24, 1990. The site is a private residence located at 1335 Purisima Road approximately two miles northeast of the community of Lompoc. See Figure 2-1, Site Location Map. The ranch property is approximately two acres in size and is situated at the base of a mesa. Purisima Road and Rucker Road, two heavily used county roads, border the property on the southern and eastern perimeters. Open agricultural fields exist to the south of Purisima Road and the La Purisima Mission State Historical Park is east of Rucker Road. The Mesa Oaks real estate development, which houses an estimated 2000 residents, is situated on the mesa above the ranch to the north and northwest.

The property is owned by G. Niesen and is rented to D. Goforth. The ranch is best described as a "biker commune" with many different people living in sheds, buses, and trailers on the property at any one time. Eight people, including Mr. Goforth, were arrested during the drug raid on March 16, 1990, and were still in jail when TAT visited the site on March 24, 1990.

It was reported that the plating chemicals belonged to F. Freedly, a resident at the property. Apparently, Mr. Freedly had at one time worked at a plating shop that went out of business. The business owner gave Mr. Freedly the chemical inventory and equipment with the intent that Mr. Freedly was going to establish his own plating business. The materials were being stored at the Purisima Road property until the business could be located and started.

SBCH issued Messrs. Niesen and Freedly a Notice of Violation (NOV) on March 16, 1990. The NOV directed the responsible parties (RP's) to remove and properly dispose of all hazardous waste stored at the property. The RP's were given one week to develop a workplan, but neither party responded

appropriately within the specified timeframe.

2.2 Hazard Assessment

Upon touring the property, TAT observed approximately 100 55-gallon drums, 50 various sized vats with many containing liquids, and numerous smaller containers of chemicals. The containers were stored throughout the property both in and around sheds and buildings. Many drums and open vats had hand-written markings identifying contents as acid or cyanide solutions. Storage was haphazard with incompatible materials being staged together. Based on the condition of the containers and the amount of debris/junk on and around the containers, it appeared that the materials had been stored on the property for an extended period of time. See Figure 2-2, Site Diagram.

TAT departed the property at 1030 hours and contacted On-Scene Coordinator (OSC) W.E. Lewis to provide an initial assessment update. After the briefing, TAT returned to the site to conduct a thorough inventory and collect hazardous categorization samples. At 1145 hours, prior to completing SA activities, M. Soet arrived. Ms. Soet stated she had just been released from jail and was returning home. Ms. Soet mentioned that she was the first of the group that had been released, but expected Messrs. Goforth and Freedly to be discharged soon. Ms. Soet requested that TAT depart and since security was the primary concern TAT left the site at 1200 hours. TAT again contacted OSC Lewis and it was determined that TAT would demobilize and then return once appropriate access logistics were coordinated.

On March 26, 1990, TAT contacted SBCH representative R. Alexander regarding site access. Mr. Alexander stated that although SBCH had access authority it was determined that SBCH would obtain a search warrant. Mr. Alexander had begun the process to procure a search warrant, but did not expect to have the warrant until later in the week or early the following week.

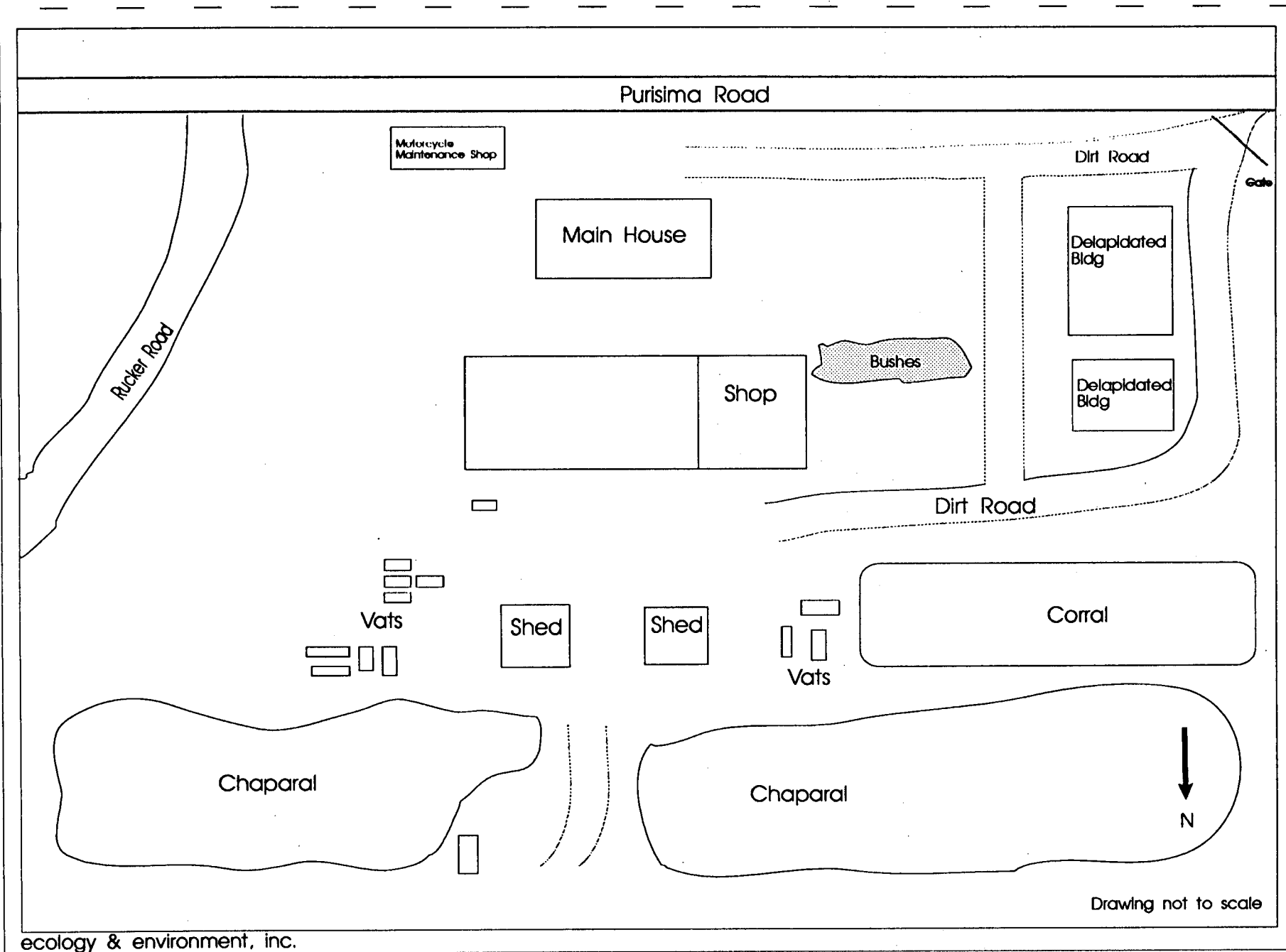
3.0 SITE CHARACTERIZATION

3.1 Removal Action Funding

On March 29, 1990, OSC K. McCarty initiated an action memorandum requesting funding for a removal action (RA). The intent of the proposed RA was to provide characterization and stabilization of the containers and contents. After characterization and stabilization, site operations would be demobilized and a federal enforcement action pursued in an attempt to get RP cleanup commitments. If RP commitments were not realized in a timely fashion, personnel and equipment would be remobilized to continue the EPA Superfund RA. The action memorandum was subsequently approved and site activities were scheduled to begin on March 30, 1990.

3.2 Access Logistics

At 0830 hours, on March 30, 1990, OSC McCarty, Messrs. Randall and Wise, four U.S. Coast Guard Pacific Strike Team (USCG) members and three Emergency Response Cleanup Services (ERCS) contractor representatives from Riedel



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Figure 2-2
 Site Diagram
 Lompoc Drums
 Lompoc, CA

Environmental Services, Inc. assembled at the SBCH office. The group met with personnel from SBCH, SBCSD, the Santa Barbara County District Attorney and a county drug enforcement task force for a briefing prior to SBCSD serving the search warrant and securing the property. It was reported that Messrs. Goforth and Freedly were still in jail, however, it was suspected that other people were possibly at the property. At 0950 hours, SBCSD reported that the search warrant had been served and the site had been secured.

3.3 Chemical Evaluation

Trash and debris were cleared from around chemical containers to allow access. While removing debris, ERCS personnel discovered what was thought to have been a pipe bomb and blasting cap device. Prior to SA activities, TAT had contacted DEA officials and was informed that DEA had searched the property for booby-traps during the drug raid, but had not located any such devices. The Santa Barbara County Explosive Ordinates Disposal (EOD) unit was notified. EOD responded and removed the material to a remote location for detonation. EOD representatives later confirmed that the "pipe bomb" was actually a lead-filled PVC pipe and not a bomb.

Initial efforts focused on locating and completing an inventory of all chemical containers. To facilitate the inventory, the site was divided into four areas. Initial container locations and subsequent area designations are illustrated in Figure 3-1, Area Designation and Initial Container Locations. All containers were labeled by TAT personnel with an identification number. Drums and smaller containers were numbered in sequence from 1 to 192. Vats were assigned identifying numbers from 501-524. Container type, size, integrity and quantity of material were recorded. Other observable characteristics or relevant information were also noted. After completing the container inventory, samples were collected for field hazardous categorization (hazcat) purposes. Liquid samples from vats, drums and other containers were obtained using thieving tubes and solid materials were sampled with scoops or trowels. Some of the containers which were identified as unopened product or had intact labels which allowed a positive identification were not sampled.

USCG personnel were tasked by OSC McCarty to conduct field hazcat tests. Samples were tested for pH, flammability, density, solubility in water, and for the presence of oxidizers, sulfides and cyanide. The results were recorded on chemical data sheets. The data sheets were then given to TAT for hazard class identification and further processing via the STREAMLINE computer database. Fifteen potential chemical wastestream categories were identified from the hazcat data. See Table 3-1, Initial Wastestreams. The hazcat samples were stored in overpack drums for future compatibility testing purposes in the event the RA went to completion. Appendix B lists container inventory and hazcat data results.

Four samples were collected for laboratory analysis to demonstrate the existence of hazardous materials. Samples were selected based on previously conducted hazcat field tests. Sampling and sample management were done in accordance with procedures specified in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, 3rd Edition, U.S. Environmental Protection Agency, 1986. Each sample was collected with a new drum thieving

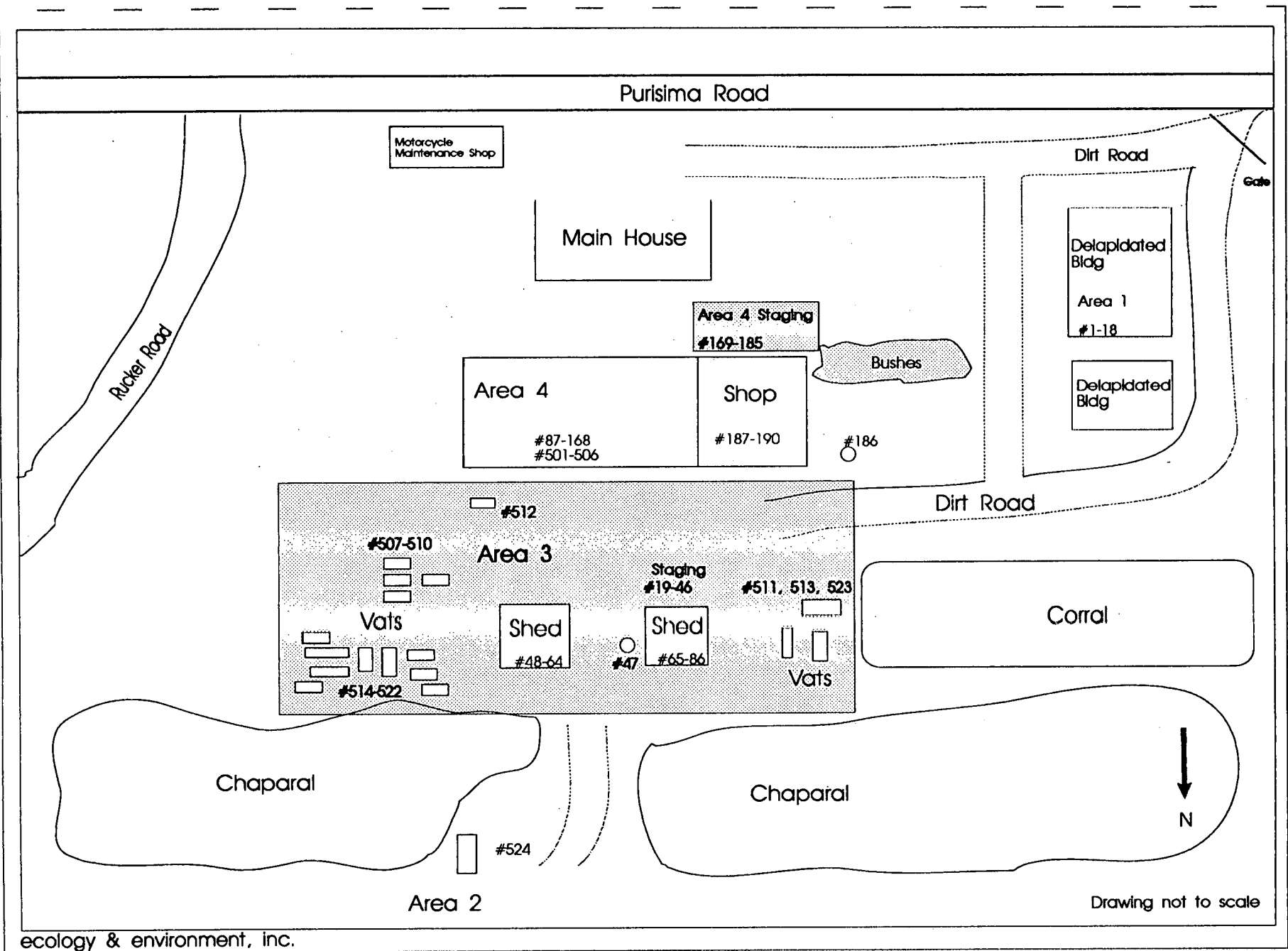


Figure 3-1
 Area Designations and Initial Container Locations
 Lompoc Drums
 Lompoc, CA

Table 3-1

Initial Wastestreams
Lompoc Drums Removal

Hazard Class - Liquid	Hazard Class - Solid
Acid Liquid (AL)	Acid Solid (AS)
Acid Oxidizing Liquid (AOL)	Base Solid (BS)
Base Liquid (BL)	Cyanide Solid (CNS)
Chlorinated Liquid (CLL)	Flammable Solid (FS)
Cyanide Liquid (CNL)	Sulfide Solid (SS)
Flammable Liquid (FL)	Non-Characteristic Solid (NCS)
Oxidizing Liquid (OL)	
Sulfide Liquid (SL)	
Non-Characteristic Liquid (NCL)	

tube and placed into I-Chem, lot numbered, specifically cleaned, 16 ounce, wide mouth glass jars with Teflon lined lids. Each sample jar was labeled, sealed with custody tape and logged onto chain-of-custody forms. Sampling activities and full-view sample location photographs were taken for each sample. The samples were stored on ice in a cooler and hand delivered to Golden State Analytical Services, Inc. for 24-hour rush analysis on April 2, 1990. Analysis was performed under TAT Special Projects TDD T099004-101. All four of the liquid samples were analyzed for pH (EPA method #9045) and Total Threshold Limit Concentrations for the 17 California Administrative Code Title 22 metals. Two samples, #60 and #102, were analyzed for total and amenable cyanide (EPA method #9010) and the other two samples, #39 and #59, were analyzed for acid identification by ion chromatography (EPA method #300). Laboratory analysis revealed concentrations above Title 22 regulatory hazardous waste determining levels for several metals including cadmium, chromium, copper, nickel and zinc. Cyanide was detected at 2500 and 3500 milligrams per liter (mg/L) in samples 60 and 102, respectively. Laboratory results are contained in Appendix C.

3.4 Site Stabilization

Prior to departure, several degraded containers of material were placed in overpack containers for stabilization. All of the containers with the exception of the large vats were moved into the building designated as Area #4 and the two sheds located in Area #3 (see Figure 3-1) for security. The structures were boarded shut and marked with caution tape. Vats containing liquids were covered with plywood and plastic and also marked with caution tape. A 24-hour guard service was hired to monitor the property to ensure that unauthorized personnel did not access the secured areas until final removal options were determined. On-site operations were demobilized on April 1, 1990.

3.5 Enforcement Order

Based on the hazard assessment findings, EPA issued Messrs. Niesen and Freedly a CERCLA 106 Order (Number 90-09) on April 13, 1990. The Order required the RP's to take immediate actions to contain and prevent the release or potential release of hazardous substances from the site. Immediate actions were to include establishment of site security, site stabilization commitments, and submittal of a work plan for EPA approval addressing treatment, recycling and/or disposal plans. The RP's were given until 1700 hours on April 18, 1990 to notify EPA of their intent to comply. Mr. Niesen had contacted EPA, but did not commit to a cleanup response by the deadline and Mr. Freedly was still imprisoned.

4.0 REMOVAL ACTION

4.1 Mobilization

Removal personnel and equipment were mobilized on April 18, 1990 and on-site operations began on April 19, 1990. On-site personnel included OSC McCarty, Mr. Randall, TAT member A. Talamantez, ERCS Response Manager M. Renfro, two ERCS laborers and a field clerk. OSC R. Martyn relieved OSC McCarty on April 22, 1990 and remained until site demobilization.

4.2 Compatibility Testing

Prior to mobilization for the RA, TAT prepared a tentative wastestream bulking scheme based on the field hazcat results. TAT conducted field compatibility tests for each wastestream before consolidation efforts began. Proportionate sample aliquots from each container within a characteristic wastestream were combined together in the order of proposed bulking. Samples were monitored for evolution of gas, phase changes and temperature variations to indicate potential incompatibilities.

4.3 Wastestream Consolidation

Bulking operations were conducted by ERCS personnel under TAT direction. The liquids were pumped into 660-gallon Baker tanks and staged on-site pending subsequent acceptance to treatment/disposal facilities. The actual number of wastestreams was eventually reduced from 15 (see Table 3-1) to 9 through retesting and reclassification of some hazcat results or by combining the limited volumes of certain wastestreams with larger, compatible wastestreams. For example, the 100 gallons of base liquid (BL) was added to the cyanide liquid (CNL) category. A total of 15 Baker tanks were utilized. The only liquid not transferred to a Baker tank was the 40 gallons of halogenated/flammable liquid (HFL) which was contained in a 55-gallon drum. See Table 4-1, Final Liquid Wastestreams.

Many of the containers had residual amounts of sludge remaining after the liquids had been removed. A cut-off saw was used to dehead the drums and the sludge materials were removed. Sludges were placed in four 55-gallon drums and on-site solid wastestreams were contained in three 85-gallon overpacks. Removal generated solids/sludges are listed in Table 4-2, Final Solid Wastestreams.

4.4 Container Decontamination

All drums, vats and containers that had materials extracted were decontaminated. Drums and vats previously containing acids were triple rinsed with a soda ash/water solution. The drums and smaller containers were then re-staged in Area #4. Large vats were covered and left in place. The cyanide drums were rinsed with a sodium hypochlorite solution to destruct residual cyanides. The cyanide drums were cut in two and placed in a roll-off bin for landfill disposal.

4.5 Health and Safety

Liquid consolidation operations were conducted in Level B respiratory protection while work activities being performed away from pumping operations were done in Level C protection. TAT organized and implemented an air surveillance program to screen work zones for elevated levels of air contaminants to ensure worker health and safety. Air pumps coupled with long term Draeger tubes were utilized to monitor for hydrocyanic acid (HCN) on a continuous basis, while periodic monitoring was conducted for hydrochloric acid, nitric acid and chromic acid depending on the type of materials being consolidated. Exact monitoring locations were dictated by the daily work zone activities with one sampling train setup in close proximity to the containers being pumped and another positioned near the

Table 4-1
Final Liquid Waststreams
Lompoc Drums Removal

Hazard Class - Liquid	Quantity
Acid Liquid	4800 gal
Acid Oxidizing Liquid	2400 gal
Cyanide Liquid	1100 gal
Halogenated/Flammable Liquid	40 gal
Non-Characteristic Liquid	600 gal
	Total: 8950 gal

Table 4-2
Final Solid Waststreams
Lompoc Drums Removal

Hazard Class - Solid	Quantity
Acid Solid	1600 lbs
Base Solid	800 lbs
Cyanide Solid	200 lbs
Barium Solid	30 lbs
	Total: 2630 lbs

discharge to the Baker tanks. All of the HCN Draeger tubes registered non-detect readings with the exception of one monitoring episode on April 25, 1990. The Draeger tube reading was calculated to correspond to a HCN concentration of 2.1 ppm; the on-site action level was 10 ppm. ERCS personnel were decontaminating previously pumped drums when the HCN was detected and it is presumed that a residual amount of cyanide reacted to form HCN. None of the other acid gas Draeger tubes registered detectable concentrations. All pump calibration and air surveillance data is recorded in the TAT log book.

4.6 Demobilization

On-site operations with the exception of waste transportation were concluded on April 26, 1990. ERCS labor personnel and equipment were demobilized and departed at 1630 hours. OSC Martyn, TAT and Mr. Renfro remained on-site to coordinate wastestream transportation logistics.

5.0 OFF-SITE WASTE HANDLING

5.1 Sample Collection

Following bulking operations, OSC Martyn and TAT inspected the areas where the containers had originally been stored to determine the need for collection of post removal soil samples. Most of the containers were found intact on wooden pallets over a dirt foundation. The pallets were removed and the areas were viewed. Outside storage areas were also inspected for potential leakage onto the ground. No soil staining was witnessed, therefore, it was determined that post removal soil sample collection was not warranted.

TAT collected representative samples of each wastestream from the Baker tanks for delivery to the treatment/disposal facilities for profile analysis and acceptance. Samples from each of the Baker tank liquid wastestreams were given to ERCS for shipment to the facilities on April 23, 1990, however, Mr. Renfro reported to OSC Martyn on April 26, 1990 that the samples destined for Chem Tech System, Inc. (Chem Tech) were not delivered by the shipping company. OSC Martyn in turn directed ERCS to hand deliver the samples to the facility in Los Angeles in order to expedite the acceptance process. Samples representing the remaining wastestreams (the solids/sludges and HFL) were collected on April 26, 1990 and turned over to Mr. Renfro for delivery to the receiving facility.

5.2 Waste Disposition

The acid liquid (AL), acid oxidizing liquid (AOL) and non-characteristic liquid (NCL) categories totaling 7800 gallons were accepted for treatment by Chem Tech. The Baker tanks were marked with proper shipping names, UN/NA numbers, labeled, manifested and shipped via three trucks on April 28, 1990.

The CNL was approved for treatment at ETICAM in Fernley, Nevada, but ETICAM representatives informed Mr. Renfro that they would be unable to receive the shipment until May 29, 1990. Rather than search for another facility that was able to process the CNL and go through the acceptance process again, OSC

Martyn determined that the CNL would be temporarily stored at a facility that met EPA's Off-Site Disposal Policy until ETICAM could receive the shipment. Technical Environmental Systems, Inc. (TES) in La Port, Texas was the nearest facility that could be located meeting the Off-Site Disposal Policy criteria. Transportation to TES was scheduled for April 30, 1990.

The remaining wastestreams comprised of three overpacks of cyanide solids (CNS), one overpack of barium compound, one drum of HFL, two drums of acid sludge (AS), and one drum of base sludge (BS) had not been accepted for disposal as of April 28, 1990. Therefore, it was determine that these wastestreams would also be sent to TES for storage pending final disposition.

The CNL, CNS, barium compound and HFL were manifested and transported to TES on April 30, 1990 as scheduled. The three drums of remaining solid material (AS and BS) were also to have been shipped to TES on April 30, 1990, but the transportation truck did not arrive. The shipment was rescheduled and Mr. Renfro reported that the drums were picked up on May 9, 1990.

The roll-off bin containing the empty, destroyed cyanide drums and removal generated trash was transported under manifest to Chemical Waste Management (Chem Waste) for landfill disposal on May 2, 1990.

Mr. Renfro informed TAT on May 10, 1990, that laboratory analysis of the NCL which had been sent to Chem Tech revealed 25 parts per million (ppm) of cyanides. Since Chem Tech is not permitted to treat cyanide bearing wastestreams, the NCL Baker tank was manifested to ETICAM from Chem Tech on May 28, 1990. The CNL being stored at TES was also manifested and shipped to ETICAM on May 28, 1990.

On June 11, 1990, Mr. Randall contacted Mr. Renfro to inquire about the status of remaining materials being stored at the TES facility. Mr. Renfro stated that the CNS, barium compound, AS, BS, and HFL were going to be "brokered" for appropriate disposal by TES. Mr. Renfro was not sure of the exact date or pending destinations for ultimate disposal, but expected to receive certificates of destruction sometime in the near future. A complete summary of the wastestreams including shipping, destination and disposition specifics is included in Table 5-1, Waste Disposition Summary. Manifest copies of all wastestreams shipped from the site are contained in Appendix D.

5.3 Remaining Materials

There were various containers which were either identified as product material or did not exhibit hazardous characteristics when hazcated. The containers were staged in the work shop portion of Building #4 (see Figure 3-1) and left on-site. See Table 5-2, Remaining Materials Summary.

6.0 SUMMARY

Site assessment activities were initiated in March 1990 at the request of SBCH which resulted in an extended Site Characterization phase and subsequent EPA Removal Action. A total of 216 containers were inventoried

Table 5-1

Waste Disposition Summary
Lompoc Drums Removal

Description	Shipping Name	Manifest No.	Quantity	Disposition	TSDF	Removal Date
Acid Liquid	Waste Corrosive Liquid, n.o.s. UN 1760	88676808/ 88676820	4800 gal	Metals Recovery/ Neutralization	Chem Tech	4/28/90
Acid Oxidizing Liquid	Waste Oxidizing, Corrosive Liquid, n.o.s. NA 9193	88676812	2400 gal	Metals Recovery/ Neutralization	Chem Tech	4/28/90
Non- Characteristic Liquid	Hazardous Waste Liquid, n.o.s. NA 9189	88676811	600 gal	Metals Recovery	Chem Tech* ETICAM	4/28/90 5/28/90
Cyanide Liquid	Waste Cyanide Solution, n.o.s. UN 1935	88676878	1100 gal	Storage Metals Recovery/ Destruction	TES ETICAM	4/30/90 5/28/90
Cyanide Solid	Waste Cyanide, Dry UN 1588	88676878	200 lbs	Storage Disposal Pending	TES	4/30/90
Barium Compound	Waste Barium Compound, n.o.s. UN 1564	88676878	30 lbs	Storage Disposal Pending	TES	4/30/90
Halogenated/ Flammable Liquid	Waste Flammable Liquid, n.o.s. UN 1993	88676878	40 gal	Storage Disposal Pending	TES	4/30/90
Acid/Base Sludge	Waste Corrosive Solid, n.o.s. UN 1759	Not** Available	2400 lbs	Storage Disposal Pending	TES	5/09/90
Removal Debris	Hazardous Waste Solid, n.o.s. NA 9189	Not** Available	20 yd ³	Landfill	Chem Waste	5/02/90

* Originally sent to Chem Tech for metals recovery.
Cyanides were later detected and, therefore, transported to ETICAM.

** Manifests retained by ERC3

Table 5-2
 Remaining Materials Summary
 Lompoc Drums Removal

Container I.D.	Description	Quantity
6	Industrial Soap	100 lbs
7	Alkaline Cleaner (soap)	100 lbs
9	Oakite Aluminum Cleaner NST, Industrial Product	30 gal
10	Oakite Aluminum Cleaner 166, Mildly Alkaline Industrial Product	50 lbs
13	Oakite BCR, Moderately Alkaline Industrial Product	25 gal
15	Soap	100 lbs
25	Non-Characteristic Solid	2 lbs
34	NP-A Anti-Pitting Addition for Nickel Plating Solutions	1 gal
81	Non-Characteristic Solid	20 lbs
170/171	Fumetrol 205T Mist Suppressant Tablets	2 lbs
174	Potassium Stanate	5 lbs
180	Jasco Paint Thinner	1 gal
188	Celite Filter Powder	10 lbs
190	Non-Characteristic Solid	50 lbs
192	Sodium Nitrobenzene Sulfanate 99+	5 lbs

and characterized. Removal activities generated 8950 gallons of liquid wastes, approximately 2600 pounds of solid/sludge material and one roll-off box (20 yd³ capacity) of contaminated debris. TAT paid particular attention to segregation of like materials during pumping operations in an effort to minimize final treatment costs at the receiving facility. The AL and AOL categories were comprised of different types of metal bearing solutions, predominantly nickel, copper and chrome, and Chem Tech had stated that treatment costs could be reduced by as much as a factor of three if the wastestreams were kept separate.

Representative samples of each wastestream were collected from the Baker tanks and drums for delivery to the selected treatment/disposal facilities for profile analysis and acceptance. TAT recommends for future EPA Removal Actions that outside laboratory analysis should be initiated for several reasons including: 1) separate analysis would allow for confirmation of treatment/disposal facility analysis, and 2) would minimize time delays in the event that the receiving facility could not accept the waste.

Seven thousand two hundred (7200) gallons of AL and AOL were sent to Chem Tech in Los Angeles, California for metals recovery and neutralization. The 1100 gallons of CNL was approved by ETICAM in Fernley, Nevada for metals recovery and cyanide destruction, but ETICAM was unable to receive the shipment until May 29, 1990. The CNL was transported to TES in La Port, Texas for storage until ETICAM could accept the waste. The material was shipped to ETICAM on May 28, 1990. In addition, 200 lbs of CNS, 30 lbs of barium compound, 40 gallons of HFL, and 2400 lbs of AS/BS were sent to TES pending ultimate disposal. Originally, 600 gallons of NCL had been sent to Chem Tech for metals recovery, however, further laboratory analysis by Chem Tech revealed 25 ppm of cyanide. Since Chem Tech is not permitted to treat cyanide bearing wastestreams, the liquid was manifested to ETICAM on May 28, 1990.

TAT utilized the Removal Cost Management System (RCMS) to generate contractor daily cost reports, daily cost summaries and site summary reports while on-site. RCMS documents and archive diskettes were forwarded to OSC McCarty after site demobilization.

On-site operations with the exception of off-site waste removal were concluded on April 26, 1990. The majority of wastes were transported to receiving facilities on April 28 and April 30, 1990. The last shipment of materials was removed from the property on May 9, 1990. Photodocumentation of site assessment and removal operation activities is contained in Appendix E.

Appendix A

FBI Steve D

No 0283

SANTA BARBARA COUNTY HEALTH CARE SERVICES
 ENVIRONMENTAL HEALTH DIVISION
 SPECIAL INVESTIGATION RECORD

- 1) FOOD - HAZMAT - HOUSING - SAFETY - VECTOR - WASTE MGMT - WATER REC - WATER SYSTEMS - MISC
- 2) DATE 03-16-90 (EMERGENCY RESPONSE) COMPLAINT LOG # ERNC 569-22.53
- 3) RECEIVED BY Roy Alexander TIME RECEIVED 9:20 AM DIST. # 1
- 4) EHD RESPONSE yes / no PROP 65 yes / no LOG # _____
- 5) DATE PROP 65 SENT TO BOS Media on site DATE RECORDED _____ INITIALS _____
- 6) REPORTED BY Sheriff's Department OF Lompoc PHONE 737-7737
- 7) REPORTING PARTY'S ADDRESS Lompoc Substation
- 8) FACILITY/SITE NAME Private Residence
- 9) ADDRESS 1335 Purisma Road CITY Lompoc ZIP 93436
- 10) APN # _____ CONTACT _____ PHONE _____
- 11) RESPONSIBLE PARTY Gerald Niesen PHONE 733-2970
- 12) ADDRESS 481 Oakhill Drive CITY Lompoc (VV) ZIP 93436
- 13) NATURE OF INCIDENT/COMPLAINT (indicate material type, volume, and hazard where applicable) Drug
lab on site, also approximately 75 55-gallon drums of plating chemicals along with plating
vats (some with chemicals in them) and other plating shop equipment.
- 14) DATE/TIME INCIDENT OCCURRED 03-16-90 @ 6:00 AM
- 15) EHD STAFF RESPONDING R Alexander, S Campfield & D Ford DATE/TIME ON SCENE 9:40 AM 03-16-90
- 16) INJURIES/SYMPTOMS None Known
- 17) ENVIRONMENT AFFECTED Ground
- 18) LOCALE residential/commercial/agricultural/open space/public/private
- 19) AGENCIES CONTACTED DEA, ATF, Sheriff and Fire Dept RESPONDING YES
- 20) EVACUATION ORDERED/PUBLIC ACCESS RESTRICTED Area posted with barrier tape.
- 21) RECOMMENDATIONS/REFERRALS/NOTES All chemicals associated with the drug lab were removed by a disposal company out of L.A. They were called in by the DEA. An inventory of the plating waste material was taken as best as could be without moving the barrels and equipment. Pictures were taken. SAMPLES OF OPEN AND READILY ACCESSIBLE MATERIAL were taken. See attached list for inventory, samples and pictures. NOV issued to property owner Gerald Niesen requiring proper disposal. Verified receipt of NOV over phone at 6:00 PM, 03-16-90, with Mr. Niesen. Mr. Niesen stated that Mr. Fred Freedly indicated
- 22) COMPLAINANT NOTIFIED OF STATUS: DATE _____ INITIALS _____

COUNTY OF SANTA BARBARA

HEALTH CARE SERVICES

INSPECTION REPORT Page 2 of

SIR #0283 Log# ERNC 569 - 22.55

Name Gerald Niesen	Inspection Date 03-16-90
-----------------------	-----------------------------

Address 1335 Purisma Road, Lompoc, CA 93436
--

that he was going to store chemicals on the property. Mr. Niesen was under the impression that it was only going to be for a short period of time and that they were already removed. Mr. Niesen stated he was on the property last week but did not inspect the place. He rents it to Mr. David Goforth.

COUNTY OF SANTA BARBARA

HEALTH CARE SERVICES

INSPECTION REPORT. Page 3 of

SIR #0283 Long #ERN 569 - 22.55

Name	Gerald Niesen	Inspection Date	03-16-90
Address	1334 Purisma Road, Lompoc, CA 93436		

CHEMICAL INVENTORY BY AREA

AREA #		Quantity
AREA # 1		
1.	Boric Acid	Approximately 25 pounds 1
2.	Ether	" 5 gallons (empty) 1
3.	Zinc Cyanide	" 75 pounds 1
4.	Copper Sulfate	" 75 pounds 1
5.	Aluminum Cleaner	" 100 pounds 1
AREA # 2		
7.	Blue-green unknown vat	Approximately 30 gallons 1
AREA # 3		
8.	Chrome Plating Liquid	Approximately 55 gallons 15
9.	HCL	" 15 gallons 1
10.	Muratic Acid	" 15 gallons 2
11.	Potassium Carbonate	" 55 gallons 1
12.	Nickle Sulfate	" 55 pounds 1
13.	Deca Lume D-3R	" 5 gallons 5
14.	Perchlorethylene	" 5 gallons 1
15.	Unknown Liquid	" 300 gallons 5 vats
16.	Chromic Acid Dry	" 100 pounds 1
17.	Copper Cyanide	" 55 gallons 1
18.	Potassium Cyanide	" 100 pounds 1

COUNTY OF SANTA BARBARA

HEALTH CARE SERVICES

INSPECTION REPORT, Page 4 of _____

SIR #0283 Log #ERNC 569 - 22.55

Name	Gerald Niesen	Inspection Date	03-16-90
Address	1334 Purisma Road, Lompoc, CA 93436		

AREA # 4 - Lab		Quantity
20.	Unknown	Approximately 55 gallons
21.	Black Chrome	" 55 gallons
22.	HCL	" 55 gallons
23.	Sodium Hydrochloric Acid	" 55 gallons
(Full vats also present)		

AREA # 5 - Front Maintenance Shop

24.	Parts Cleaner & Solvent	Approximately 30 gallons	1
-----	-------------------------	--------------------------	---

PHOTOS TAKEN ON MARCH 16, 1990

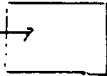
Print #	Description	Area
21	Chrome Vat	3
22	Tank #10 - Green Fluid	3
23	Tank #3 - Brown Fluid	3
24	Large Green Tank - brown and green crusty sides	3
1 - 2	Front Shed Solvent	5
3 - 9	Chemical Storage Area	3
10	Extra Vat Storage Area	3
11 - 12	Chemical Storing Vats	3
13	Chrome Plating Work	3
14	Additional Unknown Chemical	3
15	Additional Vat Storage Area	2
16	Acid Vat - Blue Green Fluid	2

Name	Gerald Niesen	Inspection Date	03-16-90
Address	1334 Purisma Road, Lompoc, CA 93436		

Print #	Description	Area
17	Acid Vat - Blue Green Fluid	2
18	Outdoor Trash Area	2
19	Drug Lab Chemicals	4
20 - 24	Old Shed Drug Storage	
1	Entrance To Old Shed	
2 - 5	Sewage From Main House	
6	Possible Toxic Landfill Area	

Purisma Road

Motorcycle
aintenance Shop →



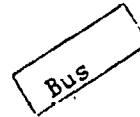
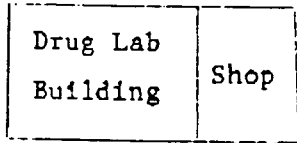
Main
House

Driveway

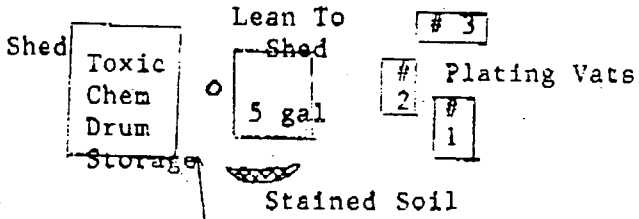
Old
Shed

AREA # 1

AREA # 4



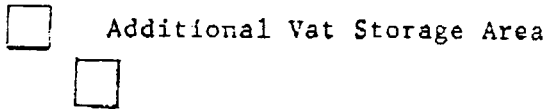
AREA # 3



75 Yards



AREA # 2





LAWRENCE HART, M.D., F.A.C.P.M.
DIRECTOR AND HEALTH OFFICER

COUNTY OF SANTA BARBARA • HEALTH CARE SERVICES

315 CAMINO DEL REMEDIO • SANTA BARBARA, CALIFORNIA 93110 • (805) 681-9200

M E M O R A N D U M

TO: Tom Evans
Lompoc Environmental Health Department

FROM: Roy Alexander
Hazardous Materials Specialist

DATE: March 19, 1990

SUBJECT: Referral

The purpose of this memorandum is to inform you that on March 16, 1990, a member of the Environmental Health Division staff made an inspection at 1335 Purisma Road, Lompoc, CA. The following conditions were noted which may be a violation of your code or otherwise of interest to you:

Failed septic system, pooling sewage.

FACILITY OCCUPANT: David Goforth Phone:

FACILITY OWNER: Gerald Niesen Phone: 733-2970

OWNER'S ADDRESS: 481 Oakhill Drive, Lompoc, CA

We would appreciate a verbal or written report of your evaluation of these conditions. Please contact me at 934-6223 if you have any questions about this matter.

RJA:jbd
HM-168

CC: County Building Department

BRANCH OFFICES

500 West Foster Rd.
Santa Maria, CA 93455

751-B East Burton Mesa
Lompoc, CA 93436



COUNTY OF SANTA BARBARA • HEALTH CARE SERVICES

315 CAMINO DEL REMEDIO • SANTA BARBARA, CALIFORNIA 93110 • (805) 964-8848

NOTICE OF VIOLATION

LAWRENCE HART, M.D., F.A.C.P.M.
DIRECTOR AND HEALTH OFFICER

Date March 16, 1990

Name: Gerald Niesen

Address: 481 Oak Hill, Lompoc, California 93436

Violation Location: 1335 Purisma Rd., Lompoc, CA

Assessor's Parcel No.: _____

	Code	Title	Section(s)	Description
1.	<u>CA Code of Regulations</u>	<u>22</u>	<u>66508, 67120</u>	<u>Improper storage of a hazardous waste</u>
2.	<u>Health and Safety</u>		<u>25189</u>	<u>Illegal disposal of a hazardous waste</u>
3.	_____	_____	_____	_____

In order to comply with the above mentioned code section you must immediately:

Remove and properly dispose of all hazardous waste stored at 1335 Purisma Rd., Lompoc, California.

All hazardous waste transported off site must be transported under a Hazardous Waste Manifest by

a State Health Department registered hauler to an approved hazardous waste treatment, storage or

disposal site. Contact our office at the phone number below prior to removal of the hazardous

waste in order to verify that your proposed actions will be in compliance with the hazardous waste

control laws.

It is necessary to comply with this Notice by March 26, 1990 in order to avoid further legal action. If you have any questions please contact the undersigned at 934-6223. The signing of this Notice is not an admission of guilt but an acknowledgment of receipt.

Left at Front door of residence
3-16-90

Received by

CC: Eric Hansen, District Attorney

Environmental Health Officer

Roy J. Alexander, R.E.H.S.

BRANCH OFFICES

500 West Foster Road
Santa Maria, CA 93454

751 B East Burton Mesa Blvd.
Lompoc, CA 93436

Appendix B

HAZCAT DATA by HAZARD CLASS

Sample Cont ID No.	Type	Size	Amount	Volume	Mat.	Container Cond.	Top Locale	Hazard Class	Matrix Soluble	Ph	Ox	Cn	Sulf	Bic	Cl	Sample Taken?	
** DATA FOR HAZARD CLASS : AL																	
0012A	C	30	1.00	30.00	P	G	B AREA 1	AL	L	Y	1	F	F	F	F	T	T
0022A	C	5	0.33	1.65	P	G	O AREA 3 Stg	AL	L	Y	1	F	F	F	F	T	T
0023A	C	5	1.00	5.00	P	G	O AREA 3 Stg	AL	L	Y	1	F	F	F	F	T	T
0038A	C	10	1.00	10.00	P	F	B AREA 3 Stg	AL	L	Y	1	F	F	F	F	T	T
0040A	C	15	1.00	15.00	P	G	B AREA 3 Stg	AL	L	Y	1	F	F	F	F	T	T
0042A	C	5	1.00	5.00	P	G	O AREA 3 Stg	AL	L	Y	1	F	F	F	F	T	T
0045A	C	10	0.50	5.00	P	G	B AREA 3 Stg	AL	L	Y	3	F	F	F	F	T	T
0055A	D	55	0.75	41.25	P	G	B Area 3 Sh1	AL	L	Y	1	F	F	F	F	T	T
0061A	D	55	1.00	55.00	P	G	B Area 3 Sh1	AL	L	Y	1	F	F	F	F	T	T
0066A	C	5	1.00	5.00	P	G	O Area 3 Sh2	AL	L	Y	2	F	F	F	F	T	T
0068A	C	5	1.00	5.00	P	F	O Area 3 Sh2	AL	L	Y	3	F	F	F	F	T	T
0069A	C	5	1.00	5.00	P	F	B Area 3 Sh2	AL	L	Y	1	F	F	F	F	T	T
0070A	C	5	0.50	2.50	P	G	B Area 3 Sh2	AL	L	Y	3	F	F	F	F	T	T
0073A	C	5	0.50	2.50	P	F	B Area 3 Sh2	AL	L	Y	3	F	F	F	F	T	T
0075A	C	5	1.00	5.00	P	G	O Area 3 Sh2	AL	L	Y	3	F	F	F	F	T	T
0076A	C	5	0.50	2.50	P	G	O Area 3 Sh2	AL	L	Y	1	F	F	F	F	T	T
0077A	C	5	1.00	5.00	P	G	B Area 3 Sh2	AL	L	Y	1	F	F	F	F	T	T
0082A	C	1	1.00	1.00	P	G	O Area 3 Sh2	AL	L	Y	1	F	F	F	F	T	T
0086A	C	1	0.25	0.25	P	G	O Area 3 Sh2	AL	L	Y	1	F	F	F	F	T	T
0091A	D	55	1.00	55.00	P	G	B Area 4	AL	L	Y	1	F	F	F	F	T	T
0092A	D	55	1.00	55.00	P	G	B Area 4	AL	L	Y	1	F	F	F	F	T	T
0094A	D	55	0.75	41.25	P	F	B Area 4	AL	L	Y	1	F	F	F	F	T	T
0099A	D	55	1.00	55.00	P	F	B Area 4	AL	L	Y	1	F	F	F	F	T	T
0101A	C	30	0.10	3.00	P	G	B Area 4	AL	L	Y	1	F	F	F	F	T	T
0103A	D	55	1.00	55.00	P	F	B Area 4	AL	L	Y	1	F	F	F	F	T	T
0111A	D	55	1.00	55.00	P	G	B Area 4	AL	L	Y	1	F	F	F	F	T	T
0112A	D	55	1.00	55.00	P	G	B Area 4	AL	L	Y	1	F	F	F	F	T	T
0113A	D	55	1.00	55.00	P	F	B Area 4	AL	L	Y	1	F	F	F	F	T	T
0114A	D	55	1.00	55.00	P	G	B Area 4	AL	L	Y	1	F	F	F	F	T	T
0115A	C	30	1.00	30.00	P	F	B Area 4	AL	L	Y	1	F	F	F	F	T	T
0116A	C	35	1.00	35.00	P	F	B Area 4	AL	L	Y	1	F	F	F	F	T	T
0117A	D	55	1.00	55.00	P	G	B Area 4	AL	L	Y	1	F	F	F	F	T	T
0118A	D	55	1.00	55.00	P	G	B Area 4	AL	L	Y	1	F	F	F	F	T	T
0119A	D	55	1.00	55.00	P	G	B Area 4	AL	L	Y	1	F	F	F	F	T	T
0120A	D	55	1.00	55.00	P	P	O Area 4	AL	L	Y	1	F	F	F	F	T	T
0121A	D	55	1.00	55.00	P	G	B Area 4	AL	L	Y	1	F	F	F	F	T	T
0123A	D	55	1.00	55.00	P	F	B Area 4	AL	L	Y	1	F	F	F	F	T	T
0125A	D	55	1.00	55.00	P	F	B Area 4	AL	L	Y	1	F	F	F	F	T	T
0142A	D	55	1.00	55.00	P	G	B Area 4	AL	L	Y	1	F	F	F	F	T	T
0143A	D	55	1.00	55.00	P	G	B Area 4	AL	L	Y	1	F	F	F	F	T	T
0144A	D	55	1.00	55.00	P	G	B Area 4	AL	L	Y	1	F	F	F	F	T	T
0145A	D	55	1.00	55.00	P	G	B Area 4	AL	L	Y	1	F	F	F	F	T	T
0154A	D	55	1.00	55.00	P	G	B Area 4	AL	L	Y	1	F	F	F	F	T	T
0173A	C	1	0.25	0.25	P	F	O Area 4 Stg	AL	L	Y	2	F	F	F	F	T	T
0183A	D	55	0.25	13.75	P	F	O ???	AL	L	Y	3	F	F	F	T	F	T

HAZCAT DATA by HAZARD CLASS

Sample ID	Cont No.	Type	Size	Amount	Volume	Mat.	Container Cond.	Top Locale	Hazard Class	Matrix	Soluble	Ph	Ox	Cn	Sulf	Bic	Cl	Sample Taken?
0185A	C		1	0.25	0.25	P	P	0 Area 4	Stg AL	L	Y	2	.F.	.F.	.F.	.F.	.T.	.T.
0503A	V		200	1.00	200.00	P	G	0 Area 4	AL	L	Y	1	.F.	.F.	.F.	.F.	.T.	.T.
0507A	V		500	0.10	50.00	P	F	0 Area 3	AL	L	Y	1	.F.	.F.	.F.	.F.	.T.	.T.
0508A	V		300	0.10	30.00	F	G	0 Area 3	AL	L	Y	1	.F.	.F.	.F.	.F.	.T.	.T.
0509A	V		250	0.10	25.00	S	G	0 Area 3	AL	L	Y	1	.F.	.F.	.F.	.F.	.T.	.T.
0510A	V		25	0.10	2.50	P	G	0 Area 3	AL	L	Y	1	.F.	.F.	.F.	.F.	.T.	.T.
0511A	V		300	1.00	300.00	S	F	0 Area 3	AL	L	Y	1	.F.	.F.	.F.	.F.	.T.	.T.
0514A	V		200	0.20	40.00	S	G	0 Area 3	AL	L	Y	1	.F.	.F.	.F.	.F.	.F.	.T.
0515A	V		200	0.10	20.00	S	F	0 Area 3	AL	L	Y	1	.F.	.F.	.F.	.F.	.F.	.T.
0516A	V		300	0.10	30.00	S	F	0 Area 3	AL	L	Y	1	.F.	.F.	.F.	.F.	.F.	.T.
0517A	V		25	0.10	2.50	P	P	0 Area 3	AL	L	Y	1	.F.	.F.	.F.	.F.	.F.	.T.
0518A	V		300	0.10	30.00	S	F	0 Area 3	AL	L	Y	1	.F.	.F.	.F.	.F.	.F.	.T.
0519A	V		300	0.10	30.00	S	F	0 Area 3	AL	L	Y	1	.F.	.F.	.F.	.F.	.F.	.T.
0520A	V		250	0.25	62.50	S	G	0 Area 3	AL	L	Y	1	.F.	.F.	.F.	.F.	.F.	.T.
0521A	V		400	0.20	80.00	S	G	0 Area 3	AL	L	Y	1	.F.	.F.	.F.	.F.	.F.	.T.
0522A	V		200	0.10	20.00	S	G	0 Area 3	AL	L	Y	1	.F.	.F.	.F.	.F.	.F.	.T.
0523A	V		200	1.00	200.00	S	G	0 Area 3	AL	L	Y	1	.F.	.F.	.F.	.F.	.T.	.T.

** DATA FOR HAZARD CLASS : AOL

0039A	C		10	1.00	10.00	P	F	B AREA 3	Stg AOL	L	Y	1	.T.	.F.	.F.	.F.	.T.	.T.
0041A	C		10	1.00	10.00	P	G	B AREA 3	Stg AOL	L	Y	1	.T.	.F.	.F.	.F.	.T.	.T.
0049A	D		55	0.50	27.50	P	G	B AREA 3-SH1	AOL	L	Y	1	.T.	.F.	.F.	.F.	.T.	.T.
0050A	D		55	1.00	55.00	P	G	B AREA 3-SH1	AOL	L	Y	2	.T.	.F.	.F.	.F.	.F.	.T.
0052A	D		55	1.00	55.00	P	G	B Area 3 Sh1	AOL	L	Y	1	.T.	.F.	.F.	.F.	.F.	.T.
0053A	D		55	1.00	55.00	P	G	B Area 3 Sh1	AOL	L	Y	2	.T.	.F.	.F.	.F.	.T.	.T.
0054A	D		55	1.00	55.00	P	G	B Area 3 Sh1	AOL	L	Y	1	.T.	.F.	.F.	.F.	.T.	.T.
0059A	D		55	1.00	55.00	P	F	B Area 3 Sh1	AOL	L	Y	1	.T.	.F.	.F.	.F.	.T.	.T.
0062A	D		55	1.00	55.00	P	G	B Area 3 Sh1	AOL	L	Y	2	.T.	.F.	.F.	.F.	.F.	.T.
0063A	D		55	1.00	55.00	P	G	B Area 3 Sh1	AOL	L	Y	2	.T.	.F.	.F.	.F.	.F.	.T.
0064A	D		55	0.50	27.50	P	G	B Area 3 Sh1	AOL	L	Y	2	.T.	.F.	.F.	.F.	.F.	.T.
0078A	C		5	0.50	2.50	P	G	0 Area 3 Sh2	AOL	L	Y	3	.T.	.F.	.F.	.F.	.F.	.T.
0087A	D		55	1.00	55.00	P	G	B Area 4	AOL	L	Y	2	.T.	.F.	.F.	.F.	.T.	.T.
0088A	D		55	1.00	55.00	P	G	B Area 4	AOL	L	Y	3	.T.	.F.	.F.	.F.	.T.	.T.
0089A	D		55	1.00	55.00	P	G	B Area 4	AOL	L	Y	3	.T.	.F.	.F.	.F.	.T.	.T.
0090A	D		55	0.75	41.25	P	G	B Area 4	AOL	L	Y	3	.T.	.F.	.F.	.F.	.T.	.T.
0093A	D		55	1.00	55.00	P	G	B Area 4	AOL	L	Y	3	.T.	.F.	.F.	.F.	.F.	.T.
0095A	D		55	1.00	55.00	P	G	B Area 4	AOL	L	Y	1	.T.	.F.	.F.	.F.	.F.	.T.
0098A	D		55	1.00	55.00	P	F	B Area 4	AOL	L	Y	2	.T.	.F.	.F.	.F.	.F.	.T.
0100A	D		55	1.00	55.00	P	G	B Area 4	AOL	L	Y	1	.T.	.F.	.F.	.F.	.F.	.T.
0104A	D		55	1.00	55.00	P	G	B Area 4	AOL	L	Y	1	.T.	.F.	.F.	.F.	.F.	.T.
0105A	D		55	1.00	55.00	P	G	B Area 4	AOL	L	Y	1	.T.	.F.	.F.	.F.	.F.	.T.
0122A	D		55	1.00	55.00	P	P	0 Area 4	AOL	L	Y	1	.T.	.F.	.F.	.F.	.T.	.T.
0128A	D		55	1.00	55.00	P	G	B Area 4	AOL	L	Y	1	.T.	.F.	.F.	.F.	.F.	.T.
0175A	C		1	0.25	0.25	P	F	0 Area 4	Stg AOL	L	Y	1	.T.	.F.	.F.	.F.	.T.	.T.
0502A	V		125	0.50	62.50	P	G	0 Area 4	AOL	L	Y	3	.T.	.F.	.F.	.F.	.F.	.T.
0512A	V		150	1.00	150.00	F	F	0 Area4	AOL	L	Y	1	.T.	.F.	.F.	.F.	.F.	.T.

HAZCAT DATA by HAZARD CLASS

Sample ID	Cont No.	Type	Size	Amount	Volume	Mat.	Container Cond.	Top Locale	Hazard Class	Matrix	Soluble	Ph	Ox	Cn	Sulf	Bic	Cl	Sample Taken?
0028A	C		5	0.25	1.25	P	G	O AREA 3 Stg	PL	L	L	15	.F.	.F.	.F.	.T.	.F.	.T.
0043A	C		10	1.00	10.00	P	G	B AREA 3 Stg	PL	L	Y	9	.F.	.F.	.F.	.T.	.F.	.T.
0180A	C		1	0.75	0.75	P	F	O Area 4 Stg	PL	L	L	15	.F.	.F.	.F.	.T.	.F.	.T.
0191A	C		30	0.50	15.00	S	G	B M.C. Shop	PL	L	L	15	.F.	.F.	.F.	.T.	.F.	.T.
** DATA FOR HAZARD CLASS : FS																		
0008A	C		50	1.00	50.00	P	P	O AREA 1	FS	S	G	15	.F.	.F.	.F.	.T.	.F.	.T.
** DATA FOR HAZARD CLASS : NCL																		
0018A	C		30	1.00	30.00	P	G	B AREA1-DOOR	NCL	L	Y	10	.F.	.F.	.F.	.F.	.F.	.T.
0019A	C		5	1.00	5.00	P	G	B AREA 3 Stg	NCL	L	Y	7	.F.	.F.	.F.	.F.	.F.	.T.
0020A	C		5	1.00	5.00	P	G	B AREA 3 Stg	NCL	L	Y	7	.F.	.F.	.F.	.F.	.F.	.T.
0021A	C		1	0.50	0.50	P	G	B AREA 3 Stg	NCL	L	Y	8	.F.	.F.	.F.	.F.	.T.	.T.
0024A	C		5	0.50	2.50	P	G	O AREA 3 Stg	NCL	L	G	15	.F.	.F.	.F.	.T.	.F.	.T.
0029A	C		5	1.00	5.00	P	G	B AREA 3 Stg	NCL	L	Y	11	.F.	.F.	.F.	.F.	.F.	.T.
0030A	C		5	1.00	5.00	P	G	B AREA 3 Stg	NCL	L	Y	11	.F.	.F.	.F.	.F.	.F.	.T.
0033A	C		5	1.00	5.00	P	G	B AREA 3 Stg	NCL	L	Y	6	.F.	.F.	.F.	.F.	.F.	.T.
0037A	C		10	0.50	5.00	P	G	B AREA 3 Stg	NCL	L	Y	6	.F.	.F.	.F.	.F.	.F.	.T.
0056A	D		55	0.75	41.25	P	G	B Area 3 Sh1	NCL	L	Y	6	.F.	.F.	.F.	.F.	.F.	.T.
0057A	D		55	1.00	55.00	P	G	B Area 3 Sh1	NCL	L	Y	6	.F.	.F.	.F.	.F.	.T.	.T.
0058A	D		55	1.00	55.00	P	G	B Area 3 Sh1	NCL	L	Y	7	.F.	.F.	.F.	.F.	.T.	.T.
0071A	C		5	0.75	3.75	P	F	B Area 3 Sh2	NCL	L	Y	11	.F.	.F.	.F.	.F.	.F.	.T.
0072A	C		5	1.00	5.00	P	F	O Area 3 Sh2	NCL	L	Y	4	.F.	.F.	.F.	.F.	.F.	.T.
0074A	C		5	0.50	2.50	P	F	B Area 3 Sh2	NCL	L	Y	6	.F.	.F.	.F.	.F.	.F.	.T.
0079A	C		5	0.50	2.50	P	G	O Area 3 Sh2	NCL	L	Y	4	.F.	.F.	.F.	.F.	.F.	.T.
0083A	C		1	1.00	1.00	P	G	O Area 3 Sh2	NCL	L	Y	7	.F.	.F.	.F.	.F.	.F.	.T.
0084A	C		1	0.75	0.75	P	G	O Area 3 Sh2	NCL	L	Y	8	.F.	.F.	.F.	.F.	.F.	.T.
0085A	C		5	0.50	2.50	S	F	O Area 3 Sh2	NCL	L	Y	5	.F.	.F.	.F.	.F.	.F.	.T.
0108A	D		55	1.00	55.00	P	G	B Area 4	NCL	L	Y	4	.F.	.F.	.F.	.F.	.F.	.T.
0110A	D		55	1.00	55.00	P	G	B Area 4	NCL	L	Y	11	.F.	.F.	.F.	.F.	.F.	.T.
0126A	D		55	1.00	55.00	P	G	B Area 4	NCL	L	Y	11	.F.	.F.	.F.	.F.	.F.	.T.
0127A	D		55	1.00	55.00	P	G	B Area 4	NCL	L	Y	7	.F.	.F.	.F.	.F.	.F.	.T.
0129A	D		55	1.00	55.00	P	G	B Area 4	NCL	L	Y	4	.F.	.F.	.F.	.F.	.T.	.T.
0130A	D		55	1.00	55.00	P	F	B Area 4	NCL	L	Y	4	.F.	.F.	.F.	.F.	.T.	.T.
0131A	D		55	1.00	55.00	P	G	B Area 4	NCL	L	Y	4	.F.	.F.	.F.	.F.	.T.	.T.
0132A	D		55	1.00	55.00	P	G	B Area 4	NCL	L	Y	4	.F.	.F.	.F.	.F.	.T.	.T.
0133A	D		55	1.00	55.00	P	G	B Area 4	NCL	L	Y	4	.F.	.F.	.F.	.F.	.T.	.T.
0134A	D		55	1.00	55.00	P	G	B Area 4	NCL	L	Y	4	.F.	.F.	.F.	.F.	.T.	.T.
0135A	D		55	1.00	55.00	P	G	B Area 4	NCL	L	Y	4	.F.	.F.	.F.	.F.	.T.	.T.
0136A	D		55	1.00	55.00	P	G	B Area 4	NCL	L	Y	4	.F.	.F.	.F.	.F.	.T.	.T.
0137A	D		55	1.00	55.00	P	G	B Area 4	NCL	L	Y	4	.F.	.F.	.F.	.F.	.T.	.T.
0140A	D		55	1.00	55.00	P	G	B Area 4	NCL	L	Y	4	.F.	.F.	.F.	.F.	.T.	.T.
0141A	D		55	1.00	55.00	P	G	B Area 4	NCL	L	Y	4	.F.	.F.	.F.	.F.	.T.	.T.
0150A	D		55	1.00	55.00	P	G	B Area 4	NCL	L	Y	7	.F.	.F.	.F.	.F.	.F.	.T.
0151A	D		55	1.00	55.00	P	G	B Area 4	NCL	L	Y	7	.F.	.F.	.F.	.F.	.F.	.T.
0155A	D		55	1.00	55.00	P	G	B Area 4	NCL	L	Y	7	.F.	.F.	.F.	.F.	.F.	.T.

HAZCAT DATA by HAZARD CLASS

Sample ID	Cont Type	Size	Amount	Volume	Container			Hazard			Ph	Ox	Cn	Sulf	Bic	Cl	Sample Taken?
					Mat.	Cond.	Top Locale	Class	Matrix	Soluble							
0157A	D	55	1.00	55.00	P	G	B Area 4	NCL	L	Y	4	.F.	.F.	.F.	.F.	.F.	.T.
0158A	D	55	1.00	55.00	P	G	B Area 4	NCL	L	Y	7	.F.	.F.	.F.	.F.	.T.	.T.
0159A	D	55	1.00	55.00	P	G	B Area 4	NCL	L	Y	6	.F.	.F.	.F.	.F.	.F.	.T.
0160A	D	55	1.00	55.00	P	G	B Area 4	NCL	L	Y	7	.F.	.F.	.F.	.F.	.F.	.T.
0161A	D	55	1.00	55.00	P	G	B Area 4	NCL	L	Y	7	.F.	.F.	.F.	.F.	.F.	.T.
0162A	C	20	1.00	20.00	P	F	0 Area 4	NCL	L	Y	4	.F.	.F.	.F.	.F.	.F.	.T.
0169A	C	5	0.25	1.25	P	P	0 Area 4 Stg	NCL	L	Y	7	.F.	.F.	.F.	.F.	.F.	.T.
0172A	C	1	1.00	1.00	P	F	0 Area 4 Stg	NCL	L	Y	8	.F.	.F.	.F.	.F.	.F.	.T.
0176A	C	1	0.12	0.12	P	P	0 Area 4 Stg	NCL	L	Y	7	.F.	.F.	.F.	.F.	.F.	.T.
0177A	C	1	1.00	1.00	P	F	0 Area 4 Stg	NCL	L	Y	7	.F.	.F.	.F.	.F.	.F.	.T.
0179A	C	1	1.00	1.00	P	F	0 Area 4 Stg	NCL	L	Y	4	.F.	.F.	.F.	.F.	.F.	.T.
0182A	C	1	0.50	0.50	P	P	0 Area 4 Stg	NCL	L	Y	7	.F.	.F.	.F.	.F.	.F.	.T.
0186A	D	55	0.25	13.75	S	F	B Area 3	NCL	L	Y	6	.F.	.F.	.F.	.F.	.F.	.T.
0504A	V	200	1.00	200.00	P	G	0 Area 4	NCL	L	Y	7	.F.	.F.	.F.	.F.	.F.	.T.

** DATA FOR HAZARD CLASS : NCS

0006A	C	100	0.50	50.00	S	F	0 AREA 1	NCS	S	Y	4	.F.	.F.	.F.	.F.	.F.	.T.
0015A	C	100	1.00	100.00	P	P	0 AREA 1	NCS	S	G	15	.F.	.F.	.F.	.F.	.F.	.T.
0017A	C	5	1.00	5.00	F	P	0 AREA 1	NCS	S	G	15	.F.	.F.	.F.	.F.	.F.	.T.
0025A	C	5	0.50	2.50	S	G	0 AREA 3 Stg	NCS	S	Y	6	.F.	.F.	.F.	.F.	.F.	.T.
0036A	C	15	1.00	15.00	P	F	0 AREA 3 Stg	NCS	S	Y	6	.F.	.F.	.F.	.F.	.F.	.T.
0065T	C	100	0.50	50.00	F	G	0 Area 3 Sh2	NCS	S	Y	7	.F.	.F.	.F.	.F.	.F.	.T.
0081T	C	50	1.00	50.00	P	G	0 Area 3 Sh2	NCS	S	Y	7	.F.	.F.	.F.	.F.	.F.	.T.
0170A	C	2	0.50	1.00	P	F	0 Area 4 Stg	NCS	S	G	15	.F.	.F.	.F.	.F.	.F.	.T.
0178A	C	2	0.50	1.00	F	P	0 Area 4 Stg	NCS	S	Y	7	.F.	.F.	.F.	.F.	.F.	.T.
0181A	C	1	0.01	0.01	G	P	0 Area 4 Stg	NCS	S	Y	6	.F.	.F.	.F.	.F.	.F.	.T.
0188A	C	15	1.00	15.00	F	P	0 Area4 Shop	NCS	S	G	15	.F.	.F.	.F.	.F.	.F.	.T.
0190A	C	100	0.50	50.00	F	P	0 Area4 Shop	NCS	S	G	15	.F.	.F.	.F.	.F.	.F.	.T.
0192A	C	10	1.00	10.00	F	P	0 Area4 Shop	NCS	S	Y	9	.F.	.F.	.F.	.F.	.F.	.T.

** DATA FOR HAZARD CLASS : NS

0002A	C	100	0.75	75.00	F	F	0 AREA 1	NS			15	.F.	.F.	.F.	.F.	.F.	.F.
0004A	C	100	1.00	100.00	F	G	0 AREA 1	NS			15	.F.	.F.	.F.	.F.	.F.	.F.
0007A	C	350	0.25	87.50	F	G	0 AREA 1	NS			15	.F.	.F.	.F.	.F.	.F.	.F.
0009A	C	40	0.75	30.00	F	F	B AREA 1	NS			15	.F.	.F.	.F.	.F.	.F.	.F.
0010A	C	200	0.25	50.00	P	G	0 AREA 1	NS			15	.F.	.F.	.F.	.F.	.F.	.F.
0011A	C	50	0.33	16.50	F	P	0 AREA 1	NS			15	.F.	.F.	.F.	.F.	.F.	.F.
0013A	C	100	0.25	25.00	F	P	0 AREA 1	NS			15	.F.	.F.	.F.	.F.	.F.	.F.
0014A	C	150	1.00	150.00	F	F	0 AREA 1	NS			15	.F.	.F.	.F.	.F.	.F.	.F.
0016A	C	20	1.00	20.00	P	F	0 AREA 1	NS			15	.F.	.F.	.F.	.F.	.F.	.F.
0031A	C	2	0.50	1.00	S	G	0 AREA 3 Stg	NS			15	.F.	.F.	.F.	.F.	.F.	.F.
0034A	C	1	1.00	1.00	P	G	B AREA 3 Stg	NS			15	.F.	.F.	.F.	.F.	.F.	.F.
0044A	C	10	0.00	0.00	P	G	B AREA 3 Stg	NS			15	.F.	.F.	.F.	.F.	.F.	.F.
0046A	C	10	0.00	0.00	P	G	B AREA 3 Stg	NS			15	.F.	.F.	.F.	.F.	.F.	.F.
0047A	D	55	0.25	13.75	P	G	B AREA 3 Stg	NS			15	.F.	.F.	.F.	.F.	.F.	.F.
0109A	C	0	0.00	0.00	P	G		NS			15	.F.	.F.	.F.	.F.	.F.	.F.

HAZCAT DATA by HAZARD CLASS

Sample Cont ID No. Type	Size	Amount	Volume	Mat.	Container Cond.	Top	Locale	Hazard Class	Matrix	Soluble	Ph	Ox	Cn	Sulf	Bic	Cl	Sample Taken?
0138A	D	55	0.00	0.00	P	G	B Area 4	NS			15	.F.	.F.	.F.	.F.	.F.	.F.
0171A	C	2	0.50	1.00	P	F	0 Area 4 Stg	NS			15	.F.	.F.	.F.	.F.	.F.	.F.
0187A	C	35	0.00	0.00	S	G	0 Area4 Shop	NS			15	.F.	.F.	.F.	.F.	.F.	.F.
** DATA FOR HAZARD CLASS : OL																	
0124A	C	20	0.50	10.00	S	F	0 Area 4	OL	L	Y	7	.T.	.F.	.F.	.F.	.F.	.T.
0156A	D	55	1.00	55.00	P	G	B Area 4	OL	L	Y	4	.T.	.F.	.F.	.F.	.F.	.T.
0505A	V	150	0.75	112.50	P	F	0 Area 4	OL	L	Y	11	.T.	.F.	.F.	.F.	.F.	.T.
0513A	V	300	0.25	75.00	S	G	0 Area 3	OL	L	Y	11	.T.	.F.	.F.	.F.	.F.	.T.
0524A	V	100	0.25	25.00	F	F	0 Area 2	OL	L	Y	4	.T.	.F.	.F.	.F.	.F.	.T.
** DATA FOR HAZARD CLASS : SL																	
0048A	D	55	1.00	55.00	P	G	B AREA 3-SH1	SL	L	Y	14	.F.	.F.	.T.	.F.	.F.	.T.
0060A	D	55	1.00	55.00	P	F	B Area 3 Sh1	SL	L	Y	11	.F.	.T.	.T.	.F.	.F.	.T.
** DATA FOR HAZARD CLASS : SS																	
0051T	C	300	1.00	300.00	F	F	0 Area 3 Sh1	SS	S	Y	11	.T.	.F.	.T.	.F.	.F.	.T.

Hazard Data - Sample Comments - By Hazard Class

Sample ID	Sample Taken?	Hazard Class	Label/Comment	Action Taken
** Samples for Hazard Class : AL				
0012A	.T.	AL	NONE GREEN LIQUID	
0022A	.T.	AL	NONE GREEN LIQUID	
0023A	.T.	AL	NONE GREEN LIQUID	
0038A	.T.	AL	HYPOCHLORIC (MURIATIC) ACID	
0040A	.T.	AL	HYDROCHLORIC ACID GREENISH LIQUID	
0042A	.T.	AL	NONE CLEAR LIQUID/ TOP 1" CRUSTED	
0045A	.T.	AL	PAINT RINSE DARK GREEN	
0055A	.T.	AL	"Nickel Strike Chloride" Green Liquid	
0061A	.T.	AL	"Copper Strip" Green Liquid	
0066A	.T.	AL	Deca-Lume D-3R Black Liquid	
0068A	.T.	AL	Klor 300 - Chlorine Base Sanitizer Red Liquid	
0069A	.T.	AL	Unreadable Green Liquid	
0070A	.T.	AL	Decalume Black Liquid	
0073A	.T.	AL	Deca-Lume D3R Dark Liquid	
0075A	.T.	AL	Deca-Lume D3R Dark Liquid	
0076A	.T.	AL	Deca-Lume DR#1 Corrosive Clear Liquid	
0077A	.T.	AL	Corrosive Clear Liquid	
0082A	.T.	AL	None Dark Liquid	
0086A	.T.	AL	Unreadable Green Liquid	
0091A	.T.	AL	Hydrochloric Acid Corrosive Green Liquid	
0092A	.T.	AL	"Nickel" Green Liquid	
0094A	.T.	AL	"No Good" Blue-Green Liquid	
0099A	.T.	AL	None	

Hazard Data - Sample Comments - By Hazard Class

Sample ID	Sample Taken?	Hazard Class	Label/Comment	Action Taken
0101A	.T.	AL	Blue-Green Liquid Sulfuric Acid Corrosive Clear Liquid	
0103A	.T.	AL	None Blue Liquid	
0111A	.T.	AL	"Nitric Acid" Clear Liquid	
0112A	.T.	AL	"Nickel" Blue Liquid	
0113A	.T.	AL	Corrosive Blue Liquid	
0114A	.T.	AL	None Blue Liquid	
0115A	.T.	AL	None Clear Liquid	
0116A	.T.	AL	None Clear Liquid	
0117A	.T.	AL	None Blue Liquid	
0118A	.T.	AL	Unreadable Blue Liquid	
0119A	.T.	AL	Unreadable Blue Liquid	
0120A	.T.	AL	None Blue Liquid	
0121A	.T.	AL	None Green Liquid	
0123A	.T.	AL	None Green Liquid	
0125A	.T.	AL	None Green Liquid	
0142A	.T.	AL	"Acid Copper" Blue Liquid	
0143A	.T.	AL	"Acid Copper" Blue Liquid	
0144A	.T.	AL	"Acid Copper" Blue Liquid	
0145A	.T.	AL	"Acid Copper" Blue Liquid	
0154A	.T.	AL	None Dark Liquid	
0173A	.T.	AL	Muriatic Acid Yellow Liquid	
0183A	.T.	AL	None Black Oil Liquid	
0185A	.T.	AL	Motor Oil Container "Muriatic Acid"	

Hazard Data - Sample Comments - By Hazard Class

Sample ID	Sample Taken?	Hazard Class	Label/Comment	Action Taken
0503A	.T.	AL	Yellow Liquid None	
0507A	.T.	AL	Blue Liquid None Composit of #507,508,509,510 Leaves/Liquid	
0508A	.T.	AL	None Composit of #507,508,509,510 Leaves/Liquid	
0509A	.T.	AL	"Chrome Dragout" Composit of #507,508,509,510 Leaves/Liquid	
0510A	.T.	AL	None Composit #507,508,509,510 Leaves/Liquid	
0511A	.T.	AL	None Green Liquid	
0514A	.T.	AL	None Composit of #514,515,516,517,518,519,521,522 Leaves/Liquid	
0515A	.T.	AL	None Composit #514,515,516,517,518,519,521,522 Leaves/Liquid	
0516A	.T.	AL	None Composit #514,515,516,517,518,519,521,522 Leaves/Liquid	
0517A	.T.	AL	None Composit #514,515,516,517,518,519,521,522 Leaves/Liquid	
0518A	.T.	AL	None Composit #514,515,516,517,518,519,521,522 Leaves/Liquid	
0519A	.T.	AL	None Composit #514,515,516,517,518,519,521,522 Leaves/Liquid	
0520A	.T.	AL	None Green Liquid	
0521A	.T.	AL	None Composit #514,515,516,517,518,519,521,522 Leaves/Liquid	
0522A	.T.	AL	None Composit #514,515,516,517,518,519,521,522 Leaves/Liquid	
0523A	.T.	AL	None Green Liquid	
** Samples for Hazard Class : AOL				
0039A	.T.	AOL	NITRIC ACID GREENISH LIQUID	

Hazard Data - Sample Comments - By Hazard Class

Sample ID	Sample Taken?	Hazard Class	Label/Comment	Action Taken
0041A	.T.	AOL	MURIATIC ACID GREENISH/YELLOW LIQUID	
0049A	.T.	AOL	NONE GREENISH LIQUID	
0050A	.T.	AOL	CHROME BRIGHTENER DIP BROWN LIQUID	
0052A	.T.	AOL	None Brownish Liquid	
0053A	.T.	AOL	None Brown Liquid	
0054A	.T.	AOL	None Brownish Liquid	
0059A	.T.	AOL	"Acid Crap" Dark Liquid Fuming	
0062A	.T.	AOL	"Chrome Dragout, Caustic Chrome Strip" Brown Liquid	
0063A	.T.	AOL	"Cad Clear" Brown Liquid	
0064A	.T.	AOL	"Chromate" Orangish Liquid	
0078A	.T.	AOL	Luma Chrome Brown Liquid	
0087A	.T.	AOL	"Black Cr" Brown Liquid	
0088A	.T.	AOL	"Cr Black" Brown Liquid	
0089A	.T.	AOL	"Black Cr" Brown Liquid	
0090A	.T.	AOL	"Black Chrome" Brown Liquid	
0093A	.T.	AOL	"Conc Cr" Brown Liquid	
0095A	.T.	AOL	Hypochlorite Solution Corrosive Brown Liquid	
0098A	.T.	AOL	Caustic Soda Brown Liquid	
0100A	.T.	AOL	Hypchlorite Solution Corrosive Brown Liquid	
0104A	.T.	AOL	None Brown Liquid	
0105A	.T.	AOL	None Dark Liquid	
0122A	.T.	AOL	None Yellowish Liquid	
0128A	.T.	AOL	"Acid Copper"	

Hazard Data - Sample Comments - By Hazard Class

Sample ID	Sample Taken?	Hazard Class	Label/Comment	Action Taken
0175A	.T.	AOL	Green Liquid Liquid Drain Opener Conc H2SO4 Brown Liquid Water Reactive	
0502A	.T.	AOL	None Brown Liquid	
0512A	.T.	AOL	None Dark Liquid North East corner Area 4	
** Samples for Hazard Class : AS				
0067A	.T.	AS	None White Powder	
** Samples for Hazard Class : BL				
0032A	.T.	BL	"Silver Strip" BROWN LIQUID	
0035A	.T.	BL	SOIL-SOLUTION CLEANER PURPLE LIQUID	
0184A	.T.	BL	Caustic Piss Yellow Liquid	
0506A	.T.	BL	None Orangish Liquid	
** Samples for Hazard Class : BS				
0001A	.T.	BS	NONE WHITE CRUSTED POWDER/ 100 LBS	
0003A	.T.	BS	SODA TRISODIUM PHOSPHATE WHITE POWDER	
0005A	.T.	BS	CORROSIVE SODIUM HYDROXIDE WHITE POWDER/ SOLID WITH MOISTURE/ 30 LBS	
** Samples for Hazard Class : CLL				
0080A	.T.	CLL	None Blue Viscous Liquid	
** Samples for Hazard Class : CNL				
0096A	.T.	CNL	"Cyanide Brass" Clear Liquid	
0097A	.T.	CNL	"Cyanide Brass" Clear Liquid	
0102A	.T.	CNL	Liquid Laundry Bleach Clear Liquid	
0106A	.T.	CNL	None Brown Liquid	
0107A	.T.	CNL	None	

Hazard Data - Sample Comments - By Hazard Class

Sample ID	Sample Taken?	Hazard Class	Label/Comment	Action Taken
0139A	.T.	CNL	Brown Liquid None	
0146A	.T.	CNL	Greenish - Yellow Liquid Unreadable	
0147A	.T.	CNL	Yellowish Liquid Unreadable	
0148A	.T.	CNL	Yellowish Liquid None	
0149A	.T.	CNL	Yellowish Liquid None	
0152A	.T.	CNL	Yellowish Liquid None	
0153A	.T.	CNL	Yellowish Liquid Unreadable	
0163A	.T.	CNL	Yellowish Liquid "Silver"	
0164A	.T.	CNL	Brown Liquid Corrosive	
0165A	.T.	CNL	Brown Liquid None	
0166A	.T.	CNL	Brown Liquid "Silver"	
0167A	.T.	CNL	Brown Liquid Dec-Alum	
0168A	.T.	CNL	Brown Liquid "Silver"	
0501A	.T.	CNL	Orangish Liquid None Clear Liquid	
** Samples for Hazard Class : CNS				
0174A	.T.	CNS	Potassium ... something Off-white Powder	
0189A	.T.	CNS	Potassium Cyanide White Powder 75 lbs	
** Samples for Hazard Class : FL				
0026A	.T.	FL	NONE REDISH-BROWN LIQUID	
0027A	.T.	FL	PENZOIL - HYDRAULIC OIL 2 PHASE (2ND PHASE NON FLAMMABLE)	
0028A	.T.	FL	NONE BROWNISH LIQUID (PARTS DIP?)	
0043A	.T.	FL	UNREADABLE BROWN LIQUID	

Hazard Data - Sample Comments - By Hazard Class

Sample ID	Sample Taken?	Hazard Class	Label/Comment	Action Taken
0180A	.T.	FL	Paint Thinner Clear Liquid	
0191A	.T.	FL	None Clear Liquid	
** Samples for Hazard Class : FS				
0008A	.T.	FS	NONE RED POWDER/ 50 LBS	
** Samples for Hazard Class : NCL				
0018A	.T.	NCL	SODIUM HYDROXIDE CLEAR VISCOUS LIQUID	
0019A	.T.	NCL	NONE CLEAR LIQUID	
0020A	.T.	NCL	SOLVENT CLEAR LIQUID	
0021A	.T.	NCL	NONE GREEN LIQUID	
0024A	.T.	NCL	KLOR 300 - CHLORINE BASE CLEANER Used Motor Oil	
0029A	.T.	NCL	NICKEL SULFATE (SILVER STRIP) BLUE-GREEN LIQUID	
0030A	.T.	NCL	"SILVER STRIP" BLUE LIQUID	
0033A	.T.	NCL	NONE LIGHT GREEN LIQUID	
0037A	.T.	NCL	NONE CLEAR LIQUID	
0056A	.T.	NCL	"Nickel Drag Solution" Green Liquid	
0057A	.T.	NCL	"Nickel Drag Solution" Green Liquid	
0058A	.T.	NCL	None Green Liquid	
0071A	.T.	NCL	Copper Plating Addition Clear Liquid	
0072A	.T.	NCL	Unreadable Dark Liquid	
0074A	.T.	NCL	None Clear Liquid	
0079A	.T.	NCL	Unreadable Reddish Liquid	
0083A	.T.	NCL	None Green Liquid	
0084A	.T.	NCL	None Reddish Liquid	

Hazard Data - Sample Comments - By Hazard Class

Sample ID	Sample Taken?	Hazard Class	Label/Comment	Action Taken
0085A	.T.	NCL	Perchloroethylene Orangish Liquid	
0108A	.T.	NCL	None Green Liquid	
0110A	.T.	NCL	"Zinc" Reddish Liquid	
0126A	.T.	NCL	"Zinc" Orangish Liquid	
0127A	.T.	NCL	None Green Liquid	
0129A	.T.	NCL	None Blue Liquid	
0130A	.T.	NCL	"Acid Copper" Blue Liquid	
0131A	.T.	NCL	None Blue Liquid	
0132A	.T.	NCL	"Acid Copper" Blue Liquid	
0133A	.T.	NCL	None Blue Liquid	
0134A	.T.	NCL	None Blue Liquid	
0135A	.T.	NCL	None Blue Liquid	
0136A	.T.	NCL	"Acid Copper" Blue Liquid	
0137A	.T.	NCL	None Blue Liquid	
0140A	.T.	NCL	None Blue Liquid	
0141A	.T.	NCL	"Acid Copper" Blue Liquid	
0150A	.T.	NCL	None Green Liquid	
0151A	.T.	NCL	None Green Liquid	
0155A	.T.	NCL	None Green Liquid	
0157A	.T.	NCL	None Brown Liquid	
0158A	.T.	NCL	"Dull Nickel" Green Liquid	
0159A	.T.	NCL	Unreadable Clear Liquid	
0160A	.T.	NCL	None Green Liquid	

Hazard Data - Sample Comments - By Hazard Class

Sample ID	Sample Taken?	Hazard Class	Label/Comment	Action Taken
0161A	.T.	NCL	None Green Liquid	
0162A	.T.	NCL	None Clear Liquid	
0169A	.T.	NCL	None Green Liquid/Sludge	
0172A	.T.	NCL	None Brown Liquid	
0176A	.T.	NCL	SilverLum Brightner Tan Liquid	
0177A	.T.	NCL	Plating Additive Agent Clear Liquid	
0179A	.T.	NCL	Plating Addition Agent Clear Liquid	
0182A	.T.	NCL	BC-39 Protective Coating for Black Chrome Yellowish Liquid	
0186A	.T.	NCL	None Located next to small camper west of Area 4 Bldg	
0504A	.T.	NCL	None Green Liquid	
** Samples for Hazard Class : NCS				
0006A	.T.	NCS	S- NICKEL ELECTROLYTE/ MARKED "SOAP" YELLOWISH POWDER/ SLIGHTY SOLUABLE/ 100 LBS	
0015A	.T.	NCS	NONE WHITE POWDER	
0017A	.T.	NCS	NONE BLACK POWDER IN A PAPER BAG/ 5 LBS	
0025A	.T.	NCS	NONE RUST COLORED POWDER	
0036A	.T.	NCS	NONE BLACK POWDER (CARBON BLACK ?)/ 15 LBS	
0065T	.T.	NCS	Chronic Acid(dry) Luma-Chrome(Oxidizer) "Ba for Cr White Powder 50 lbs	
0081T	.T.	NCS	None Black Powder 50 lbs	
0170A	.T.	NCS	Mist Suppressent Tablets Light Blue Tablets 1 lbs	
0178A	.T.	NCS	"Ni Carbonate" Green Solid 1 lbs	
0181A	.T.	NCS	None Off-white Powder	

Hazard Data - Sample Comments - By Hazard Class

Sample ID	Sample Taken?	Hazard Class	Label/Comment	Action Taken
0188A	.T.	NCS	None Off-white Powder 15 lbs	
0190A	.T.	NCS	None 50 lbs	
0192A	.T.	NCS	"Sodium Nitrobenzene, Sulfanate 99" Yellow Flakes	
** Samples for Hazard Class : NS				
0002A	.F.	NS	ZINC CYANIDE WHITE POWDER (PRODUCT)/ 100 LBS	
0004A	.F.	NS	COPPER CYANIDE 100 LBS	
0007A	.F.	NS	SODIUM HYDROXIDE - UN1759 PRODUCT/ 350 LBS	
0009A	.F.	NS	OAKLITE ALUMINUM CLEANER NST/MILDLY ALKALINE/40 LB PRODUCT	
0010A	.F.	NS	OAKLITE ALUMINUM CLEANER 166 WHITE POWDER/ 200 LBS	
0011A	.F.	NS	COPPER SULFATE PAPER BAG OF BLUE POWDER/ 50 LBS	
0013A	.F.	NS	OAKLITE BCR - MOD. ALKALINE WHITE POWDER/ 100 LBS	
0014A	.F.	NS	BORIC ACID SEALED PAPER BAG/ PRODUCT/ 150 LBS	
0016A	.F.	NS	BORIC ACID WHITE POWDER/ 20 LBS	
0031A	.F.	NS	NONE METAL GARDEN SPRAYER/ TOP STUCK, No Sample	
0034A	.F.	NS	ANTI-PITTING ADDITIVE FOR Ni PLATING SOLUTION PRODUCT	
0044A	.F.	NS	CORROSIVE EMPTY	
0046A	.F.	NS	UNKNOWN EMPTY	
0047A	.F.	NS	NONE MATERIALS HAVE SOLIDIFIED	
0109A	.F.	NS	#109 skipped in numbering sequence	
0138A	.F.	NS	None Empty Drum	
0171A	.F.	NS	Mist Suppressent Tablets Light Blue Tablets 1 lbs	
0187A	.F.	NS	"Cyanide Copper" Chunks of steel bar	

Hazard Data - Sample Comments - By Hazard Class

Sample ID	Sample Taken?	Hazard Class	Label/Comment	Action Taken
** Samples for Hazard Class : OL				
0124A	.T.	OL	None Liquid/Sludge	
0156A	.T.	OL	None Brown Liquid	
0505A	.T.	OL	None Clear Liquid	
0513A	.T.	OL	None Yellow Liquid	
0524A	.T.	OL	"Acid" Dark Green Liquid	
** Samples for Hazard Class : SL				
0048A	.T.	SL	MARKED "ZINC ACID FOR AL" CLEAR LIQUID	
0060A	.T.	SL	"Cyanide Brass" Clear Liquid	
** Samples for Hazard Class : SS				
0051T	.T.	SS	Potassium Carbonate White Powder	

HAZARD CLASS & DATA GLOSSARY

Class

Code Hazard Class Description

Data Glossary

Code	Hazard Class Description	Data Glossary
AL	Acid Liquid	SAMPLE ID NO. : A = All the material
AOL	Acid Oxidizing Liquid	T = Top portion
AOS	Acid Oxidizing Solid	B = Bottom portion
AS	Acid Solid	CONTAINER TYPE : V = Vat
BL	Base Liquid	D = Drum
BOL	Base Oxidizing Liquid	C = Container less than 55 gall.
BOS	Base Oxidizing Solid	SIZE : Size of container in gallons
BS	Base Solid	AMOUNT : 1.00 = Full
CLG	Chlorinated Gas	0.75 = 3/4 Full
CLL	Chlorinated Liquid	0.00 = Empty
CNG	Cyanide Gas	(material that G = Glass
CNL	Cyanide Liquid	the container P = Poly
CNS	Cyanide Solid	is made of) F = Fiber
FG	Flammable Gas	CONTAINER COND.: P = Poor
FL	Flammable Liquid	F = Fair
FS	Flammable Solid	G = Good
NCG	Non Characteristic Gas	CONTAINER TOP : O = Open
NCL	Non Characteristic Liquid	B = Bung
NCS	Non Characteristic Solid	MATRIX : S = Solid
NFL	Non-Flammable Liquid/Oil	CONTAINER MAT.: S = Steel
NS	No Sample Taken	L = Liquid
OG	Oxidizing Gas	G = Gas
OL	Oxidizing Liquid	SOLUBLE : Y = Soluble in water
OS	Oxidizing Solid	L = Floats in water
SG	Sulfide Gas	G = Heavier than water
SL	Sulfide Liquid	PH = 15 if material is insoluble in water such
SS	Sulfide Solid	that soluble = L or G

Classification of a Material Having More Than One Hazard
As Defined in Title 49

Hazard Number -----	Description -----
1	Radioactive material (except a limited quantity).
2	Poison A.
3	Flammable gas.
4	Non-flammable gas.
5	Flammable liquid.
6	Oxidizer.
7	Flammable solid.
8	Corrosive material (liquid).
9	Poison B.
10	Corrosive material (solid).
11	Irritating materials.
12	Combustible liquid (in containers having capacities > 110 g)
13	ORM-B.
14	ORM-A.
15	Combustible liquid (in containers having capacities <=110 g)
16	ORM-E.

Appendix C



GOLDEN STATE Analytical Services, Inc.

15735-1 Strathern St. • Van Nuys • CA 91406
Tel: (818) 376-1122 • Fax: (818) 781-8128

Client: Ecology And Environment
Project Name: Lompoc Drums
Project #: N/A
Matrix: Liquid
Date Received: 04/02/90
Date Analyzed: 04/03/90
GSAS Job#: 5203

CAM Metals

	<u>Amount Detected</u>		<u>R.L.</u>
	<u>(mg/L)</u>		<u>(mg/L)</u>
Client Sample#:	60	102	
GSAS Sample#:	0490-006	0490-007	

Antimony	BRL	BRL	0.50
Arsenic	BRL	BRL	0.05
Barium	1.9	BRL	0.20
Beryllium	BRL	BRL	0.05
Cadmium	BRL	BRL	0.05
Chromium	0.31	0.50	0.20
Cobalt	BRL	0.40	0.20
Copper	8500	18000	0.05
Lead	BRL	0.32	0.20
Mercury	BRL	BRL	0.01
Molybdenum	BRL	BRL	0.40
Nickel	20	99	0.20
Selenium	BRL	BRL	0.05
Silver	0.45	1.9	0.05
Thallium	BRL	BRL	0.20
Vanadium	BRL	BRL	0.50
Zinc	90	1800	0.05

RL: Reporting Limit
BRL: Below Reporting Limit

Approved By: Dr. B. Gene Bennett



GOLDEN STATE Analytical Services, Inc.

15735-1 Strathern St. • Van Nuys • CA 91406
Tel: (818) 376-1122 • Fax: (818) 781-8128

Client: Ecology And Environment
Project Name: Lompoc Drums
Project #: N/A
Matrix: Liquid
Date Received: 04/02/90
Date Analyzed: 04/03/90
GSAS Job#: 5203

CAM Metals

	Amount Detected (mg/L)		R.L. (mg/L)
Client Sample#:	59	39	
GSAS Sample#:	0490-008	0490-009	

Antimony	BRL	BRL	0.50
Arsenic	BRL	BRL	0.05
Barium	BRL	0.85	0.20
Beryllium	BRL	BRL	0.05
Cadmium	280	340	0.05
Chromium	590	88	0.20
Cobalt	50	42	0.20
Copper	3600	25000	0.05
Lead	30	100	0.20
Mercury	BRL	BRL	0.01
Molybdenum	2.1	17	0.40
Nickel	9000	20000	0.20
Selenium	BRL	BRL	0.05
Silver	BRL	BRL	0.05
Thallium	BRL	BRL	0.20
Vanadium	BRL	BRL	0.50
Zinc	1800	6800	0.05

RL: Reporting Limit
BRL: Below Reporting Limit

Approved By: Dr. B. Gene Bennett

Dr. B. Gene Bennett



GOLDEN STATE Analytical Services, Inc.

15735-1 Strathern St. • Van Nuys • CA 91406
Tel: (818) 376-1122 • Fax: (818) 781-8128

Client: Ecology And Environment
Project Name: Lompoc Drums
Project #: N/A
Matrix: Liquid
Date Received: 04/02/90
Date Analyzed: 04/03/90

GSAS Job#: 5203

Total Cyanide (9010)

Client Sample #	GSAS Sample #	Amount Detected	R.L.
60	GS-0490-006	2500 mg/L	0.5 mg/L
102	GS-0490-007	3500 mg/L	0.5 mg/L

RL: Reporting Limit
BRL: Below Reporting Limit

Approved By: Dr. B. Gene Bennett

Dr. B. Gene Bennett



GOLDEN STATE Analytical Services, Inc.

15735-1 Strathern St. • Van Nuys • CA 91406
Tel: (818) 376-1122 • Fax: (818) 781-8128

Client: Ecology And Environment
Project Name: Lompoc Drums
Project #: N/A
Matrix: Liquid
Date Received: 04/02/90
Date Analyzed: 04/03/90

GSAS Job#: 5203

Inorganic Anions (300.0)

Client Sample #	GSAS Sample #	Anion Detected	Amount
59	GS-0490-008	Chloride as HCl	1.6 %
		Nitrate as HNO ₃	2.2 %
		Sulfate as H ₂ SO ₄	8.8 %
39	GS-0490-009	Nitrate as HNO ₃	5.6 %
		Sulfate as H ₂ SO ₄	2.4 %

RL: Reporting Limit
BRL: Below Reporting Limit

Approved By: Dr. B. Gene Bennett

Dr. B. Gene Bennett



GOLDEN STATE Analytical Services, Inc.

15735-1 Strathern St. • Van Nuys • CA 91406
Tel: (818) 376-1122 • Fax: (818) 781-8128

Client: Ecology And Environment
Project Name: Lompoc Drums
Project #: N/A
Matrix: Liquid
Date Received: 04/02/90
Date Analyzed: 04/02/90
GSAS Job#: 5203

pH

Client Sample #	GSAS Sample #	pH
60	GS-0490-006	10.45
102	GS-0490-007	10.13
59	GS-0490-008	< 0.30
39	GS-0490-009	< 0.30

RL: Reporting Limit
BRL: Below Reporting Limit

Approved By: Dr. B. Gene Bennett

Dr. B. Gene Bennett

Appendix D

Please print or type. (Form designed for use on elite (12-pitch typewriter).)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CA1D91835661191176181019** Manifest Document No. **176181019**
 2. Page 1 of 1 Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address **U.S. EPA
1235 Mission ST
SAN FRANCISCO, CA 94120**
 4. Generator's Phone **(415) 744 1026**
 A. State Manifest Document Number **88676820**
 B. State Generator's ID

5. Transporter 1 Company Name **AM Pumping Inc** 6. US EPA ID Number **CAAC0101157958**
 C. State Transporter's ID **104920**
 D. Transporter's Phone **(213) 432 3464**
 7. Transporter 2 Company Name 8. US EPA ID Number
 E. State Transporter's ID
 F. Transporter's Phone

9. Designated Facility Name and Site Address **Chem Tech Systems
3650 E. 26th ST
Los Angeles, CA 90023** 10. US EPA ID Number **CAAT081010336811**
 G. State Facility's ID **CAAT081010336811**
 H. Facility's Phone **(213) 268 5056**

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers		13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
	No.	Type			
a. Waste Corrosive Liquid, N.O.S. CORROSIVE MATERIAL UN1760	14	TIP	1241010	G	State 792 EPA/Other D002
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above **Acid waste from plating shop clean-up
Tank #s 753, 665, 773, 730**
 K. Handling Codes for Wastes Listed Above
 a. **01** b. c. d.

15. Special Handling Instructions and Additional Information
**Wear acid resistant protective clothing and respirator w/ acid gas cartridge.
R011(454)**

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

Printed/Typed Name **RICHARD Wm. MARTYN** Signature **[Signature]** Month Day Year **04 28 90**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **x DANIEL ZUMAYA** Signature **[Signature]** Month Day Year **x 09 28 90**

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

19. Discrepancy Indication Space

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

52-7
 24-81
 ER 1
 NSE
 AL
 HE
 L
 Y
 EME
 SE
 FACILITY

Do Not Write Below This Line

Please print or type. (Form designed for use on elite (12-pitch typewriter).)

GENERATOR
TRANSPORTER
FACILITY

bc

8

bc

bc

bc

bc

bc

bc

bc

bc

bc

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CAD98356619176811** Manifest Document No. **1 of 1**

2. Page 1 of 1 Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address **U.S. EPA 1235 Mission ST San Francisco, Ca. 94120**

A. State Manifest Document Number **88676811**
B. State Generator's ID

4. Generator's Phone **(415) 744-1026**

5. Transporter 1 Company Name **AM Pumping Inc** 6. US EPA ID Number **CAC0000187958**

C. State Transporter's ID **70442010297**
D. Transporter's Phone **(510) 432-3424**
E. State Transporter's ID
F. Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
9. Designated Facility Name and Site Address **Chem Tech Systems 3650 E. 26th St Los Angeles, Ca. 90023** 10. US EPA ID Number **CATD80033681**

G. State Facility's ID **CATD80033681**
H. Facility's Phone **(213) 268-5056**

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
	No.	Type			
a. Hazardous waste, LIQUID, N.O.S ORM-E NA 9189	11	TIP	600	G	State 132 EPA/Other P002
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
Non-Characteristic metal containing liquid from plating shop clean-up TANK #5

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

15. Special Handling Instructions and Additional Information
tyvek pro clo - Acid gas cartridge & respirator

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.
Printed/Typed Name **Richard Wm. MARTYN** Signature **Richard Wm. Martyn** Month Day Year **04 28 90**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name **Henry Bunnouys** Signature **Henry Bunnouys** Month Day Year **04 28 90**

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

19. Discrepancy Indication Space

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

Do Not Write Below This Line

Please print or type. (Form designed for use on elite (12-pitch typewriter).)

367-87
 GENERATOR
 TRANSPORTER
 FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAD9835661917168718		Manifest Document No. 1 of 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address U.S. Environmental Protection Agency 1235 Mission St. San Francisco, Ca.				A. State Manifest Document Number 88676878		B. State Generator's ID							
4. Generator's Phone (415) 741-1026 94102				C. State Transporter's ID 010613		D. Transporter's Phone (213) 518-1700							
5. Transporter 1 Company Name G-SX Services of California				6. US EPA ID Number CAD089864805		E. State Transporter's ID							
7. Transporter 2 Company Name				8. US EPA ID Number		F. Transporter's Phone							
9. Designated Facility Name and Site Address Technical Environmental Systems, Inc. 500 Butterfield Rd La Porte, Tx. 77571				10. US EPA ID Number TXD982290140		G. State Facility's ID							
						H. Facility's Phone (713) 476-0615							
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		1. Waste No.	
a. Waste Cyanide Solution, N.O.S. Poison B UN1588						2 TP		11100 G		G		State 711/900150 EPA/Other F007	
b. Waste Cyanide, Dry Poison B UN1588						3 DF		200 P		P		State 351/971960 EPA/Other P121 R078, R029	
c. Waste Barium Compounds, N.O.S. Poison B UN1564						1 DM		3.5 P		P		State 187/974890 EPA/Other 0005	
d. Waste Flammable liquid, N.O.S. Flammable liquid UN1993						1 DM		4.0 G		G		State 214/984820 EPA/Other 0001	
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above							
a) Waste Cyanide from electroplating operations						a. 14		b. 14					
b) Waste Product cyanide overpacked in 85 gal OP						c. 14		d. 14					
c) Waste Barium carbonate from plating operations													
d) Solvent Waste													
15. Special Handling Instructions and Additional Information Wear Protective clothing + respirator Dry Cyanide (item b) consists of 10P ZnCN 1xOP CuCN + 1xOP KCN										16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. # I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.			
Printed/Typed Name Richard Wm. Martyn				Signature <i>Richard Wm. Martyn</i>				Month Day Year 013090					
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name Dean Engler				Signature <i>Dean Engler</i>				Month Day Year 013090					
18. Transporter 2 Acknowledgement of Receipt of Materials													
Printed/Typed Name				Signature				Month Day Year					
19. Discrepancy Indication Space													
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.													
Printed/Typed Name				Signature				Month Day Year					

Do Not Write Below This Line

Blue: GENERATOR SENDS THIS COPY TO DOHS WITHIN 30 DAYS
To: P.O. Box 400, Sacramento, CA 95812-0400

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CAD983566191176812**

2. Page 1 of 1

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

3. Generator's Name and Mailing Address
**U.S. EPA
 1235 Mission St
 San Francisco, Ca. 94120**

A. State Manifest Document Number
88676812

4. Generator's Phone (415) 774-1026

B. State Generator's ID

5. Transporter 1 Company Name
AM. Pumping, Inc

6. US EPA ID Number

C. State Transporter's ID
104905

7. Transporter 2 Company Name

8. US EPA ID Number
10A0000187958

D. Transporter's Phone
(213) 432-3464

9. Designated Facility Name and Site Address
**Chem Tech Systems
 3650 F. 26th St
 Los Angeles, Ca. 90023**

10. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

G. State Facility's ID
CATD80033681

H. Facility's Phone
(213) 268-5056

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers	13. Total Quantity	14. Unit	1. Waste No.
No. Type		Wt/Vol	State EPA/Other

a. **Oxidizing, Corrosive, liquid oxidizer**
NA 9193

4	TP	2,400	G	792	0002
---	----	-------	---	-----	------

b.
 c.
 d.

J. Additional Descriptions for Materials Listed Above
**Acid waste from plating shop clean-up
 Tank # 721, 766, 684, 681**

K. Handling Codes for Wastes Listed Above
 a. **01**
 b.
 c.
 d.

15. Special Handling Instructions and Additional Information
**Wear Acid Resistant protective clothing & Respirator w/ AG cartridges.
 RQ 1 (454)**

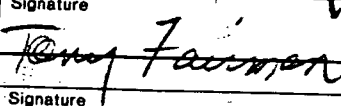
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international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

Printed/Typed Name
Richard Wm MARTYN

Signature

 Month Day Year
10 4 28 90

17. Transporter 1 Acknowledgement & Receipt of Materials
 Printed/Typed Name
Tony Fairman

Signature

 Month Day Year
10 4 28 90

18. Transporter 2 Acknowledgement & Receipt of Materials
 Printed/Typed Name

Signature
 Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
 Printed/Typed Name
 Signature
 Month Day Year

8022 A (1/88) EPA 8700-22 (Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

Blue: GENERATOR SENDS THIS COPY TO DOHS WITHIN 30 DAYS
 To: P.O. Box 400, Sacramento, CA 95812-0400

Please print or type. (Form designed for use on ~~size~~ (12-pitch typewriter).

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CA109835166119117168108**
Manifest Document No. **1 of 1**

2. Page 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
**U.S. EPA
1235 Mission St**

A. State Manifest Document Number
88676808

4. Generator's Phone **(415) 744-1026 San Francisco, Ca 94120**

B. State Generator's ID

5. Transporter 1 Company Name
J. Q. TIL

6. US EPA ID Number
CA00058018367

C. State Transporter's ID **012952**
D. Transporter's Phone **(213) 268-8137**

7. Transporter 2 Company Name

8. US EPA ID Number

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

9. Designated Facility Name and Site Address
**Chem Tech Systems
3650 E. 26th St
Los Angeles, Ca. 90023**

10. US EPA ID Number
CA10180033681

G. State Facility's ID
CA10180033681
H. Facility's Phone
(213) 268-5056

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers
No. Type
13. Total Quantity
14. Limit
Wt. Vol
15. Waste No.

a. **Waste Corrosive liquid, N.O.S.
Corrosive Material UN 1760**

14 TIP 24/100 G
State **792**
EPA/Other **DO02**

b.

State
EPA/Other

c.

State
EPA/Other

d.

State
EPA/Other

J. Additional Descriptions for Materials Listed Above
**Acid Waste from plating shop Clean-up
Tank #5**

K. Handling Codes for Wastes Listed Above
a. **01**
b.
c.
d.

15. Special Handling Instructions and Additional Information
**Wear Acid Resistant protective clothing & respirator w/AG cartridge
RQ 1 (454)**

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

Signature
Richard W Martin

Month Day Year
10/28/90

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed Typed Name
JAMES E GARRON

Signature
James E Garron

Month Day Year
10/28/90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed Typed Name
Signature
Month Day Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-RR02; WITHIN CALIFORNIA CALL 1-800-862-7560

GENERATOR

TRANSPORTER

FACILITY

Do Not Write Below This Line

Appendix E

Lompoc Drums
Lompoc, California

TDD: T099004-006

PAN: TCA1457-RFA



Drums ready for collection of hazcat samples.
Photographer: R. Randall Date: 3/30/90



Breached container of solid cyanide materials.
Photographer: R. Randall Date: 3/30/90

Lompoc Drums
Lompoc, California

TDD: T099004-006

PAN: TCA1457-RFA



Secured building after site stabilization activities.

Photographer: R. Randall

Date: 4/1/90



Vat storage at the property.

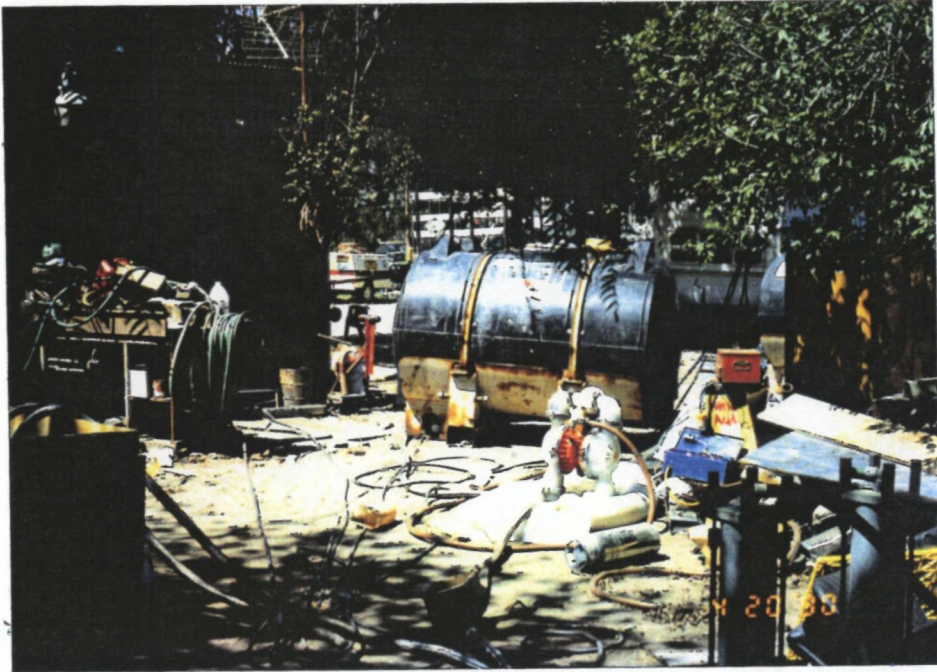
Photographer: R. Randall

Date: 4/26/90

Lompoc Drums
Lompoc, California

TDD: T099004-006

PAN: TCA1457-RFA



View of AL bulking operations.
Photographer: R. Randall

Date: 4/20/90

Lompoc Drums
Lompoc, California

TDD: T099004-006

PAN: TCA1457-RFA



Staging empty containers for decontamination.

Photographer: R. Randall

Date: 4/24/90



Cutting open drums to facilitate sludge removal.

Photographer: R. Randall

Date: 4/25/90

Lompoc Drums
Lompoc, California

TDD: T099004-006

PAN: TCA1457-RFA



Drum decontamination; triple rinsing with soda ash/water solution.
Photographer: R. Randall Date 4/24/90



Removal generated debris and destroyed cyanide containers staged prior to placing in roll-off box for landfill disposal.
Photographer: R. Randall Date: 4/26/90

Lompoc Drums
Lompoc, California

TDD: T099004-006

PAN: TCA1457-RFA



Baker tanks of bulked AL and AOL categories.

Photographer: R. Randall

Date: 4/24/90



Overpacks of CNS and drums of AS, BS, HFL staged pending transportation.

Photographer: R. Randall

Date: 4/26/90

Lompoc Drums
Lompoc, California

TDD: T099004-006

PAN: TCA1457-RFA



Loading AL Baker tank on truck for transport.

Photographer: R. Randall

Date: 4/29/90



AOL Baker tanks ready for transport.

Photographer: R. Randall

Date: 4/29/90