#### Part A Document

(With Maps, Figures and Photographs)

### RCRA Hazardous Waste Facility Permit (Renewal Application)

Pacific Scientific Energetic Materials
3601 Union Road, Hollister

**March 2015** 



Prepared for:

a Donartment of Tovi

Pacific Scientific Energetic Materials Company, Inc 3601 Union Rd Hollister, California 95023

California Department of Toxic Substances Control
Permitting Division
8800 Cal Center Drive
Sacramento, California 95826

For Submittal To:

#### **Part A Document Attachments**

- RCRA Subtitle C Site Identification Form
- Part A Table: Summary of Waste Explosives at TSU-1
- EPA Hazardous Waste Codes
- Part A Figures: Site Maps and Photographs



#### **Part A Document Attachment**

RCRA Subtitle C Site Identification Form

CO FO The Sta	ND MPLETED RM TO: e Appropriate te or Regional ice.				nited States							THE TO STATES
1.	Reason for Submittal	Rea □	To pro	or Submi ovide an I s location	nitial Notification	on (first time s	ubmitting	site identificati	on information	on / to obta	ain an EPA	. ID number
E	MARK ALL BOX(ES) THAT APPLY	<ul> <li>□ To provide a Subsequent Notification (to update site identification information for this location)</li> <li>□ As a component of a First RCRA Hazardous Waste Part A Permit Application</li> <li>□ As a component of a Revised RCRA Hazardous Waste Part A Permit Application (Amendment #)</li> <li>□ As a component of the Hazardous Waste Report (If marked, see sub-bullet below)</li> <li>□ Site was a TSD facility and/or generator of &gt;1,000 kg of hazardous waste, &gt;1 kg of acute hazardous waste, or &gt;100 kg of acute hazardous waste spill cleanup in one or more months of the report year (or State equivalent LQG regulations)</li> </ul>										
2.	Site EPA ID Number	EPA ID Number         C   A   D   0   0   9   2   2   0   8   9   8										
3.	Site Name	Name:	Pacific	Scientific	Energetic Ma	terials Compa	ny (Calif	ornia) Inc.				
4.	Site Location	Street A	ddres	s: 3601	Union Road							
	Information			Village:	Hollister						County:	San Benito
		State:	Califo			Country:	Unite	ed States			Zip Code	e: 95023
5.	Site Land Type	X Priva	ite	Coun	ty Dist		deral	Tribal	Munici	pal Ds	State	Other
6.	NAICS Code(s) for the Site		A.	3	2   5   9	2   0		C.	3   2	5   1	9 9	
	(at least 5-digit codes)		В.		3   2   9	9   5		D.				
7.	Site Mailing Address	Street o	r P.O.	Box: Sar	ne as item 4							
	Address	City, To	wn, or	Village:		1					1	
		State:				Country:		3.6			Zip Cod	e:
8.	Site Contact Person	First Na	me:	Charles		MI: F	Last:	Martin				
	reison	Title:			0 1							
		Street o	r P.O.	Box:	Same as item	4						
		City, To	wn or	Village:		1					1	
		State:				Country:					Zip Cod	e:
		Email: '	emartir	n@psemc	.com		1 2	00			1	
		Phone:					LAL	89			Fax:	rame
9.	Legal Owner and Operator			te's Lega	al Owner: Pac	ific Scientific l	Energetic	Materials Con	npany (Califo	ornia), Inc		07/07/2003
	of the Site	Owner Type:	X	Private	County	District	Fed	eral Trib	oal $\square_{M}$	unicipal	☐ State	Other
		Street o	r P.O.	Box:	Same as Iter	n 4						
		City, To	wn, or	Village:		1					Phone:	
		State:				Country:					Zip Code:	
		B. Nam	e of Si	te's Ope	rator: Pacific	Scientific Ene	getic Ma	terials Compai	ny (Californi		Date Beca Operator:	
		Operato Type:	or X	Private	County	District	Fed	eral $\Box_{Trib}$	al Mu	unicipal	State	Other

| C | A | D | | 0 | 0 | 9 | | 2 | 2 | 0 | | 8 | 9 | 8 | **EPA ID Number** OMB#: 2050-0024; Expires 01/31/2017 10. Type of Regulated Waste Activity (at your site) Mark "Yes" or "No" for all current activities (as of the date submitting the form); complete any additional boxes as instructed. A. Hazardous Waste Activities; Complete all parts 1-10. 1. Generator of Hazardous Waste 5. Transporter of Hazardous Waste  $Y \square N X$ YXNIf "Yes," mark all that apply. If "Yes," mark only one of the following - a, b, or c. a. Transporter Generates, in any calendar month, 1,000 kg/mo (2,200 lbs/mo.) or more of hazardous waste; or b. Transfer Facility (at your site) Generates, in any calendar month, or accumulates at any time, more than 1 kg/mo (2.2 lbs/mo) of acute hazardous waste; or YX N 6. Treater, Storer, or Disposer of Hazardous Generates, in any calendar month, or Waste Note: A hazardous waste Part B accumulates at any time, more than 100 kg/mo permit is required for these activities. (220 lbs/mo) of acute hazardous spill cleanup material.

matorial.	Y $\square$ N $\square$ 7. Recycler of Hazardous Waste
100 to 1,000 kg/mo (220 − 2,200 lbs/mo) of non-acute hazardous waste.  □ c. CESQG: Less than 100 kg/mo (220 lbs/mo) of non-acute hazardous waste.  If "Yes" above, indicate other generator activities in 2-10.  2. Short-Term Generator (generate from a short-term or one-time event and not from on-going processes). If "Yes," provide an explanation in the Comments section.	8. Exempt Boiler and/or Industrial Furnace If "Yes," mark all that apply.  a. Small Quantity On-site Burner Exemption b. Smelting, Melting, and Refining Furnace Exemption
√ N X 3. United States Importer of Hazardous Waste	Y N X 9. Underground Injection Control
N X 4. Mixed Waste (hazardous and radioactive) Generator	Y N X 10. Receives Hazardous Waste from Off-site
<ul> <li>Universal Waste Activities; Complete all parts 1-2.</li> <li>Y N X</li> <li>Large Quantity Handler of Universal Waste (you accumulate 5,000 kg or more) [refer to your State regulations to determine what is regulated]. Indicate types of universal waste managed at your site. If "Yes," mark all that apply.</li> </ul>	C. Used Oil Activities; Complete all parts 1-4.  Y N X 1. Used Oil Transporter If "Yes," mark all that apply.  a. Transporter b. Transfer Facility (at your site)
a. Batteries  b. Pesticides  c. Mercury containing equipment  d. Lamps  e. Other (specify)	Y N X 2. Used Oil Processor and/or Re-refiner If "Yes," mark all that apply.  a. Processor  b. Re-refiner  Y N X 3. Off-Specification Used Oil Burner  4. Used Oil Fuel Marketer  If "Yes," mark all that apply.  a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner  b. Marketer Who First Claims the Used Oil Meets the Specifications

D.		demic Entities with I		cation for opting in	to or withdrawing fr	om managing labor	atory hazardous
	❖ You can ONLY Opt into Subpart K if:						
	• you are at least one of the following: a college or university; a teaching hospital that is owned by or has a formal affiliation agreement with a college or university; or a non-profit research institute that is owned by or has a formal affiliation agreement with a college or university; AND						
	<ul> <li>you have checked with your State to determine if 40 CFR Part 262 Subpart K is effective in your state</li> </ul>						
Υ[						nent of hazardous was	
		-		initions of types of	eligible academic e	ntities. Mark all that	t apply:
	_	a. College or Univer	-	r has a formal writt	on offiliation agreen	nent with a college o	or university
	=		_		_	ment with a college	-
		. Non pront monta	to that to owned by	or nuo u rormar writ	ion annianon agroo	mone with a concego	or university
Υ[	NX 2. W	Vithdrawing from 40 C	CFR Part 262 Subpar	t K for the manageme	ent of hazardous was	stes in laboratories	
11.	Description of	of Hazardous Waste	<b>.</b>				
A.	Waste Codes	s for Federally Regu t them in the order th	lated Hazardous Wa			Federal hazardous wa 112). Use an addition	
	D001	D002	D003	D005	D006	D007	D008
	D009	D011	D022	D035	D039	F001	F002
	F003	F005	K044	K045	U002	U003	U031
	U044	U056	U154	U159	U160	U161	U213
	U234						
В.		astes handled at you				e codes of the State- ns. Use an additiona	
	122	132	143	172	181	211	212
	213	214	221	331	343	352	461
	521	513	722	723	741	791	792

EPA ID Number	C A D 0 9 2 2 0 8 9 8	OMB#: 2050-0024; Expires 01/31/2017
2. Notification o	f Hazardous Secondary Material (HSM) Activity	
Y□N□ Are	you notifying under 40 CFR 260.42 that you will begin managing	are managing, or will stop managing hazardous

Y N	Are you notifying under 40 CFR 260.42 that you will begin managing, are managing, or will stop managing hazardous secondary material under 40 CFR 261.2(a)(2)(ii), 40 CFR 261.4(a)(23), (24), or (25)?						
	If "Yes," you must fill out the Addend Material.	um to the Site Identification Form: Notification	for Managing Hazardous Secondary				
13. Com	3. Comments						
44 0-11	iti - ti I it I ti	at this also consist and all attaches and a consistence					
acco on m infori pena	4. Certification. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations. For the RCRA Hazardous Waste Part A Permit Application, all owner(s) and operator(s) must sign (see 40 CFR 270.10(b) and 270.11).						
Signatur authoriz	e of legal owner, operator, or an ed representative	Name and Official Title (type or print)	Date Signed (mm/dd/yyyy)				

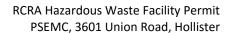
#### OMB#: 2050-0024; Expires 01/31/2017

#### ADDENDUM TO THE SITE IDENTIFICATION FORM: NOTIFICATION OF HAZARDOUS SECONDARY MATERIAL ACTIVITY



	NII	v	fill	_ u+	thic	form	if.
U	NL	. T	TIII	out	tnis	torm	IT:

You are located in a State that allows you to manage excluded hazardous secondary material (HSM) under 40 CFR 261.2(a)(2)(ii), 261.4(a)(23), (24), or (25) (or state equivalent). See http://www.epa.gov/epawaste/hazard/dsw/statespf.htm for a list of eligible states: AND You are or will be managing excluded HSM in compliance with 40 CFR 261.2(a)(2)(ii), 261.4(a)(23), (24), or (25) (or state equivalent) or you have stopped managing excluded HSM in compliance with the exclusion(s) and do not expect to manage any amount of excluded HSM under the exclusion(s) for at least one year. Do not include any information regarding your hazardous waste activities in this section. 1. Indicate reason for notification. Include dates where requested. Facility will begin managing excluded HSM as of \_\_\_\_\_ (mm/dd/yyyy). Facility is still managing excluded HSM/re-notifying as required by March 1 of each even-numbered year. Facility has stopped managing excluded HSM as of \_\_\_\_\_\_ (mm/dd/yyyy) and is notifying as required. 2. Description of excluded HSM activity. Please list the appropriate codes and quantities in short tons to describe your excluded HSM activity ONLY (do not include any information regarding your hazardous wastes). Use additional pages if more space is needed. a. Facility code b. Waste code(s) for HSM c. Estimated short d. Actual short tons e. Land-based unit tons of excluded HSM of excluded HSM (answer using code (answer using codes listed in the to be managed that was managed codes listed in the Code List section of annually during the most Code List section of the instructions) recent oddthe instructions) numbered year 3. Facility has financial assurance pursuant to 40 CFR 261.4(a)(24)(vi). (Financial assurance is required for reclaimers and intermediate facilities managing excluded HSM under 40 CFR 261.4(a)(24) and (25)) Y N Does this facility have financial assurance pursuant to 40 CFR 261.4(a)(24)(vi)?



#### **Part A Document Attachment**

EPA Hazardous Waste Codes

Code	Waste description	Code	Waste description
D001	Ignitable waste	D023	o-Cresol
D002	Corrosive waste	D024	m-Cresol
D003	Reactive waste	D025	p-Cresol
D004	Arsenic	D026	Cresol
D005	Barium	D027	1,4-Dichlorobenzene
D006	Cadmium	D028	1,2-Dichloroethane
D007	Chromium	D029	1,1-Dichloroethylene
D008	Lead	D030	2,4-Dinitrotoluene
D009	Mercury	D031	Heptachlor (and its epoxide)
D010	Selenium	D032	Hexachlorobenzene
D011	Silver	D033	Hexachlorobutadiene
D012	Endrin(1,2,3,4,10,10-hexachloro-1,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4-endo, endo-	D034	Hexachloroethane
	5,8-dimeth-ano-naphthalene)	D035	Methyl ethyl ketone
D013	Lindane (1,2,3,4,5,6-hexa- chlorocyclohexane, gamma isomer)	D036	Nitrobenzene
D014	Methoxychlor (1,1,1-trichloro-2,2-bis [p-	D037	Pentachlorophenol
D014	methoxyphenyl] ethane)	D038	Pyridine
D015	Toxaphene (C <sub>10</sub> H <sub>10</sub> Cl <sub>8</sub> , Technical chlorinated camphene, 67-69 percent	D039	Tetrachloroethylene
	chlorine)	D040	Trichlorethylene
D016	2,4-D (2,4-Dichlorophenoxyacetic acid)	D041	2,4,5-Trichlorophenol
D017	2,4,5-TP Silvex (2,4,5- Trichlorophenoxypropionic acid)	D042	2,4,6-Trichlorophenol
D018	Benzene	D043	Vinyl chloride
D019	Carbon tetrachloride		
D020	Chlordane		
D020	Chlorobenzene		
D021	Chloroform		
D022	CINOTOTOTIII		

(Continued)

Code	Waste description	Code	Waste description
HAZA SOUR	RDOUS WASTE FROM NONSPECIFIC CES		solvents: cresols, cresylic acid, and nitrobenzene; and the still bottoms from the
F001	The following spent halogenated solvents used in degreasing: Tetrachloroethylene, trichlorethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent	F005	recovery of these solvents; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above nonhalogenated solvents or those solvents listed in F001, F002, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.  The following spent nonhalogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-
	mixtures.		nitropropane; all spent solvent
F002	The following spent halogenated solvents: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane, and 1,1,2, trichloroethane; all spent solvent		mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above nonhalogenated solvents or those solvents listed in F001, F002, or F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
	mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F001, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	F006	Wastewater treatment sludges from electroplating operations except from the following processes: (1) sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating (segregated basis) on carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (5) cleaning/stripping associated with tin, zinc,
F003	The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and		and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum.
	methanol; all spent solvent mixtures/ blends containing, before use, only the above spent nonhalogenated solvents; and	F007	Spent cyanide plating bath solutions from electroplating operations.
	all spent solvent mixtures/blends containing, before use, one or more of the above nonhalogenated solvents, and a total of ten percent or more (by volume) of one	F008	Plating bath residues from the bottom of plating baths from electroplating operations in which cyanides are used in the process.
	or more of those solvents listed in F001, F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	F009	Spent stripping and cleaning bath solutions from electroplating operations in which cyanides are used in the process.
E004	The following spent nonhalogenated	F010	Quenching bath residues from oil baths

from metal heat treating operations in

The following spent nonhalogenated

F004

Code	Waste description	Code	Waste description
	chloride in vinyl chloride monomer production.	K035	Wastewater treatment sludges generated in the production of creosote.
K021	Aqueous spent antimony catalyst waste from fluoromethane production.	K036	Still bottoms from toluene reclamation distillation in the production of disulfoton.
K022	Distillation bottom tars from the production of phenol/acetone from cumene.	K037	Wastewater treatment sludges from the production of disulfoton.
K023	Distillation light ends from the production of phthalic anhydride from naphthalene.	K038	Wastewater from the washing and stripping of phorate production.
K024	Distillation bottoms from the production of phthalic anhydride from naphthalene.	K039	Filter cake from the filtration of diethylphosphorodithioic acid in the production of phorate.
K025	Distillation bottoms from the production of nitrobenzene by the nitration of benzene.	K040	Wastewater treatment sludge from the production of phorate.
K026	Stripping still tails from the production of methyl ethyl pyridines.	K041	Wastewater treatment sludge from the production of toxaphene.
K027	Centrifuge and distillation residues from toluene diisocyanate production.	K042	Heavy ends or distillation residues from the distillation of tetrachlorobenzene in the
K028	Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1-		production of 2,4,5-T.
K029	trichloroethane.  Waste from the product steam stripper in	K043	2,6-dichlorophenol waste from the production of 2,4-D.
	the production of 1,1,1-trichloroethane.	K044	Wastewater treatment sludges from the manufacturing and processing of
K030	Column bottoms or heavy ends from the combined production of trichloroethylene and perchloroethylene.	K045	explosives.  Spent carbon from the treatment of
K031	By-product salts generated in the	1043	wastewater containing explosives.
	production of MSMA and cacodylic acid.	K046	Wastewater treatment sludges from the manufacturing, formulation, and loading of
K032	Wastewater treatment sludge from the production of chlordane.	12047	lead-based initiating compounds.
K033	Wastewater and scrub water from the	K047	Pink/red water from TNT operations.
	chlorination of cyclopentadiene in the production of chlordane.	K048	Dissolved air flotation (DAF) float from the petroleum refining industry.
K034	Filter solids from the filtration of hexachlorocyclopentadiene in the production of chlordane.	K049	Slop oil emulsion solids from the petroleum refining industry.
	production of emolutine.	K050	Heat exchanger bundle cleaning sludge

Code	Waste description	Code	Waste description		
P112 P113	Tetranitromethane (R) Thallic oxide	PRODU CONTA	RDED COMMERCIAL CHEMICAL UCTS, OFF-SPECIFICATION SPECIES, AINER RESIDUES, AND SPILL UES THEREOFTOXIC WASTES		
P113	Thallium oxide Tl <sub>2</sub> O <sub>3</sub>	(AN AI	(AN ALPHABETIZED LISTING CAN BE FOUND		
P114	Selenious acid, dithallium (1+) salt	,	CFR 261.33.)		
P114	Thallium(I) selenite		(2,3,4,6-Tetrachlorophenol		
P115	Sulfuric acid, dithallium (1+) salt		2,4,5-T		
P115	Thallium(I) sulfate		2,4,5-Trichlorophenol		
P116	Hydrazinecarbothioamide		2,4,6-Trichlorophenol		
P116	Thiosemicarbazide		Acetic acid, (2,4,5-trichlorophenoxy)-		
P118	Methanethiol, trichloro-		Pentachlorophenol		
P118	Trichloromethanethiol	See	Phenol, 2,3,4,6-tetrachloro-		
P119	Ammonium vanadate	F027	Phenol, 2,4,5-trichloro-		
P119	Vanadic acid, ammonium salt		Phenol, 2,4,6-trichloro-		
P120	Vanadium oxide V <sub>2</sub> O <sub>5</sub>		Phenol, pentachloro-		
P120	Vanadium pentoxide		Propanoic acid, 2-(2,4,5-		
P121	Zinc cyanide		trichlorophenoxy)-		
P121	Zinc cyanide Zn(CN) <sub>2</sub>				
P122	Zinc phosphide $Zn_3P_2$ , when present at concentrations greater than 10% (R,T)	U001	Acetaldehyde (I)		
P123	Toxaphene	U001	Ethanal (I)		
		U002	2-Propanone (I)		
		U002	Acetone (I)		
		U003	Acetonitrile (I,T)		
		U004	Acetophenone		
		U004	Ethanone, 1-phenyl-		

Code	Waste description	Code	Waste description
U005	2-Acetylaminofluorene	U018	Benz[a]anthracene
U005	Acetamide, N-9H-fluoren-2-yl	U019	Benzene (I,T)
U006	Acetyl chloride (C,R,T)	U020	Benzenesulfonic acid chloride (C,R)
U007	2-Propenamide	U020	Benzenesulfonyl chloride (C,R)
U007	Acrylamide	U021	[1,1'-Biphenyl]-4,4'-diamine
U008	2-Propenoic acid (I)	U021	Benzidine
U008	Acrylic acid (I)	U022	Benzo[a]pyrene
U009	2-Propenenitrile	U023	Benzene, (trichloromethyl)-
U009	Acrylonitrile	U023	Benzotrichloride (C,R,T)
U010	Azirino [2',3':3,4]pyrrolo[1,2-a]indole-4,7-	U024	Dichloromethoxy ethane
	dione, 6-amino-8- [[(aminocarbonyl)oxy]methyl]- 1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5-	U024	Ethane, 1,1'-[methylenebis(oxy)]bis[2-chloro-
	methyl-, [1aS-(1aalpha, 8beta, 8aalpha, 8balpha)]-	U025	Dichloroethyl ether
U010	Mitomycin C	U025	Ethane, 1,1'-oxybis[2-chloro-
U011	1H-1,2,4-Triazol-3-amine	U026	Chlornaphazin
U011	Amitrole	U026	Naphthalenamine, N,N'-bis(2-chloroethyl)-
U012	Aniline (I,T)	U027	Dichloroisopropyl ether
U012	Benzenamine (I,T)	U027	Propane, 2,2'-oxybis[2-chloro-
U014	Auramine	U028	1,2-Benzenedicarboxylic acid, bis(2-
U014	Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-	U028	ethylhexyl) ester  Diethylhexyl phthalate
U015	Azaserine	U029	Methane, bromo-
U015	L-Serine, diazoacetate (ester)	U029	Methyl bromide
U016	Benz[c]acridine	U030	4-Bromophenyl phenyl ether
U017	Benzal chloride	U030	Benzene, 1-bromo-4-phenoxy-
U017	Benzene, (dichloromethyl)-	U031	1-Butanol (I)

Code	Waste description	Code	Waste description
U031	n-Butyl alcohol (I)	U044	Chloroform
U032	Calcium chromate	U044	Methane, trichloro-
U032	Chromic acid H <sub>2</sub> CrO <sub>4</sub> , calcium salt	U045	Methane, chloro- (I,T)
U033	Carbon oxyfluoride (R,T)	U045	Methyl chloride (I,T)
U033	Carbonic difluoride	U046	Chloromethyl methyl ether
U034	Acetaldehyde, trichloro-	U046	Methane, chloromethoxy-
U034	Chloral	U047	beta-Chloronaphthalene
U035	Benzenebutanoic acid, 4-[bis(2-	U047	Naphthalene, 2-chloro-
11025	chloroethyl)amino]-	U048	o-Chlorophenol
U035	Chlorambucil	U048	Phenol, 2-chloro-
U036	4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-	U049	4-Chloro-o-toluidine, hydrochloride
U036	Chlordane, alpha & gamma isomers	U049	Benzenamine, 4-chloro-2-methyl-, hydrochloride
U037	Benzene, chloro-	U050	Chrysene
U037	Chlorobenzene	U051	Creosote
U038	Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha-hydroxy-, ethyl ester	U052	Cresol (Cresylic acid)
U038	Chlorobenzilate	U052	Phenol, methyl-
U039	p-Chloro-m-cresol	U053	2-Butenal
U039	Phenol, 4-chloro-3-methyl-	U053	Crotonaldehyde
U041	Epichlorohydrin	U055	Benzene, (1-methylethyl)- (I)
U041	Oxirane, (chloromethyl)-	U055	Cumene (I)
U042	2-Chloroethyl vinyl ether	U056	Benzene, hexahydro- (I)
U042	Ethene, (2-chloroethoxy)-	U056	Cyclohexane (I)
U043	Ethene, chloro-	U057	Cyclohexanone (I)
U043	Vinyl chloride	U058	2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide

Code	Waste description	Code	Waste description		
U134	Hydrofluoric acid (C,T)	U146	Lead, bis(acetato-O)tetrahydroxytri-		
U134	Hydrogen fluoride (C,T)		2,5-Furandione		
U135	Hydrogen sulfide	U147	Maleic anhydride		
U135	Hydrogen sulfide H <sub>2</sub> S	U148	3,6-Pyridazinedione, 1,2-dihydro-		
U136	Arsinic acid, dimethyl-	U148	Maleic hydrazide		
U136	Cacodylic acid	U149	Malononitrile		
U137	Indeno[1,2,3-cd]pyrene	U149	Propanedinitrile		
U138	Methane, iodo-		L-Phenylalanine, 4-[bis(2-chloroethyl)amino]-		
U138	Methyl iodide		Melphalan		
U140	1-Propanol, 2-methyl- (I,T)		Mercury		
U140	Isobutyl alcohol (I,T)		2-Propenenitrile, 2-methyl- (I,T)		
U141	1,3-Benzodioxole, 5-(1-propenyl)-		Methacrylonitrile (I,T)		
U141	Isosafrole	U153	Methanethiol (I,T)		
U142	1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-	U153	Thiomethanol (I,T)  Methanol (I)		
U142	epone	U154			
	2-Butenoic acid, 2-methyl-, 7-[[2,3-	U154	Methyl alcohol (I)		
U143	dihydroxy-2-(1-methoxyethyl)-3-methyl-1-oxobutoxy]methyl]-2,3,5,7a-tetrahydro-1H-pyrrolizin-1-yl ester, [1S-[1alpha(Z), 7(2S*,3R*), 7aalpha]]-	U155	1,2-Ethanediamine, N,N-dimethyl-N'-2-pyridinyl-N'-(2-thienylmethyl)-		
		U155	Methapyrilene		
U143	Lasiocarpine	U156	Carbonochloridic acid, methyl ester, (I,T)		
U144	Acetic acid, lead(2+) salt	U156	Methyl chlorocarbonate (I,T)		
U144	Lead acetate	U157	3-Methylcholanthrene		
U145	Lead phosphate  Phosphoric acid, lead(2+) salt (2:3)		Benz[j]aceanthrylene, 1,2-dihydro-3-		
U145			methyl- 4,4'-Methylenebis(2-chloroaniline)		
U146	Lead subacetate	U158	+,+-ivicinyieneois(2-cinoroaininie)		

Code	Waste description	Code	Waste description		
U158	Benzenamine, 4,4'-methylenebis[2-chloro-	U170	Phenol, 4-nitro-		
U159	2-Butanone (I,T)		2-Nitropropane (I,T)		
U159	Methyl ethyl ketone (MEK) (I,T)	U171	Propane, 2-nitro- (I,T)		
U160	2-Butanone, peroxide (R,T)	U172	1-Butanamine, N-butyl-N-nitroso-		
U160	Methyl ethyl ketone peroxide (R,T)	U172	N-Nitrosodi-n-butylamine		
U161	4-Methyl-2-pentanone (I)	U173	Ethanol, 2,2'-(nitrosoimino)bis-		
U161	Methyl isobutyl ketone (I)	U173	N-Nitrosodiethanolamine		
U161	Pentanol, 4-methyl-		Ethanamine, N-ethyl-N-nitroso-		
U162	2-Propenoic acid, 2-methyl-, methyl ester	U174	N-Nitrosodiethylamine		
11160	(I,T)	U176	N-Nitroso-N-ethylurea		
U162	Guanidine, N-methyl-N'-nitro-N-nitroso-		Urea, N-ethyl-N-nitroso- N-Nitroso-N-methylurea		
U163					
U163	MNNG 4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl- 2-thioxo-	U177	Urea, N-methyl-N-nitroso-		
U164		U178	Carbamic acid, methylnitroso-, ethyl ester		
U164	Methylthiouracil	U178	N-Nitroso-N-methylurethane		
U165	Naphthalene	U179	N-Nitrosopiperidine		
U166	1,4-Naphthalenedione	U179	Piperidine, 1-nitroso-		
U166	1,4-Naphthoquinone	U180	N-Nitrosopyrrolidine		
U167	1-Napthalenamine	U180	Pyrrolidine, 1-nitroso-		
U167	alpha-Naphthylamine	U181	5-Nitro-o-toluidine		
U168	2-Napthalenamine	U181	Benzenamine, 2-methyl-5-nitro		
U168	beta-Naphthylamine	U182	1,3,5-Trioxane, 2,4,6-trimethyl-		
U169	Benzene, nitro-	U182	Paraldehyde		
U169	Nitrobenzene (I,T)	U183	Benzene, pentachloro-		
U170	p-Nitrophenol (I,T)	U183	Pentachlorobenzene		

Code	Waste description	Code	Waste description	
U210	Tetrachloroethylene	U225	Methane, tribromo-	
U211	Carbon tetrachloride		Ethane, 1,1,1-trichloro-	
U211	Methane, tetrachloro-	U226 U226	Methyl chloroform	
U213	Furan, tetrahydro-(I)	U227	1,1,2-Trichloroethane	
U213	Tetrahydrofuran (I)	U227	Ethane, 1,1,2-trichloro-	
U214	Acetic acid, thallium(1+) salt	U228	Ethene, trichloro-	
U214	Thallium(I) acetate	U228	Trichloroethylene	
U215	Carbonic acid, dithallium(1+) salt	U234	1,3,5-Trinitrobenzene (R,T)	
U215	Thallium(I) carbonate	U234	Benzene, 1,3,5-trinitro-	
U216	Thallium chloride Tlcl	U235	1-Propanol, 2,3-dibromo-, phosphate (3:1)	
U216	Thallium(I) chloride	U235	Tris(2,3,-dibromopropyl) phosphate	
U217	Nitric acid, thallium(1+) salt U236		2,7-Naphthalenedisulfonic acid,3,3'-[(3,3'-	
U217	Thallium(I) nitrate		dimethyl[1,1'-biphenyl]-4,4'- diyl)bis(azo)bis[5-amino-4-hydroxy]-,	
U218	Ethanethioamide	U236	tetrasodium salt	
U218	Thioacetamide		Trypan blue	
U219	Thiourea		2,4-(1H,3H)-Pyrimidinedione, 5-[bis(2-chloroethyl)amino]-	
U220	Benzene, methyl-	U237	Uracil mustard	
U220	Toluene	U238	Carbamic acid, ethyl ester	
U221	Benzenediamine, ar-methyl-	U238	Ethyl carbamate (urethane)	
U221	Toluenediamine	U239	Benzene, dimethyl- (I,T)	
U222	Benzenamine, 2-methyl-, hydrochloride	U239	Xylene (I)	
U222	o-Toluidine hydrochloride	U240	2,4-D, salts & esters	
U223	Benzene, 1,3-diisocyanatomethyl- (R,T)	U240	Acetic acid, (2,4-dichlorophenoxy)-, salts	
U223	Toluene diisocyanate (R,T)	U243	& esters 1-Propene, 1,1,2,3,3,3-hexachloro-	
U225	Bromoform	U243	Hexachloropropene	

#### CALIFORNIA WASTE CODES

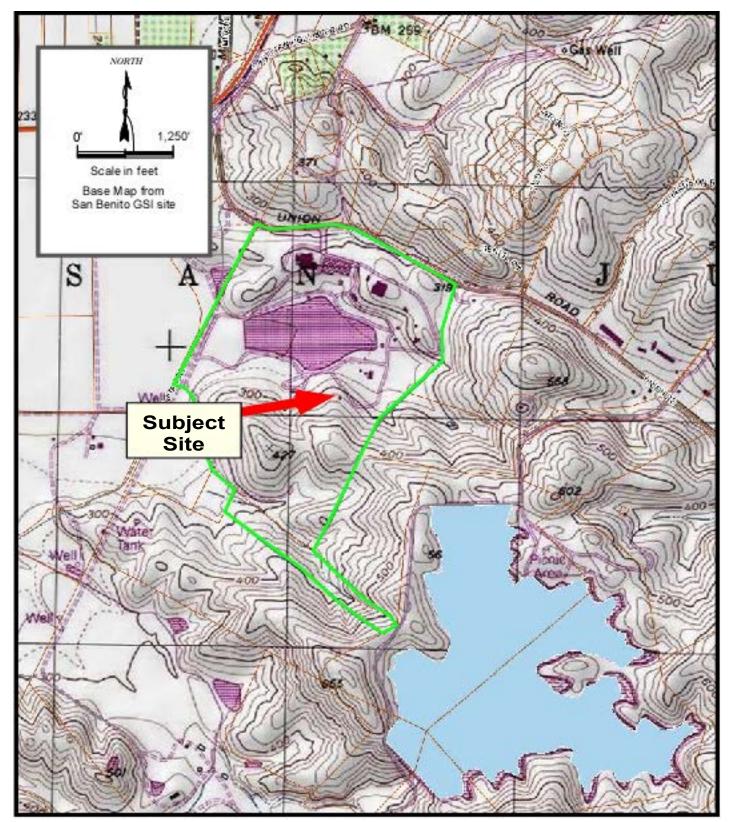
_	CALIFORNIA
Cali	fornia Restricted Wastes – Use First , if applicable
	Liquids with cyanides ≥ 1000 mg/l
	Liquids with arsenic ≥ 500 mg/l
	Liquids with cadmium ≥ 100 mg/l
	Liquids with chromium (VI) ≥ 500 mg/l
	Liquids with lead ≥ 500 mg/l
	Liquids with mercury > 20 mg/l
	Liquids with nickel ≥ 134 mg/l
	Liquids with selenium ≥ 100 mg/l
	Liquids with thallium ≥ 130 mg/l
	Liquids with polychlorinated biphenyls $\geq$ 50 mg/l
	Liquids with halogenated organic compounds ≥ 1000 mg/l
<b>'51</b>	Solids or sludges with halogenated organic comp. 1000 mg/kg
'91	Liquids with pH ≤ 2
'92	Liquids with pH ≤ 2 with metals
301	Waste potentially containing dioxins
CAL	IFORNIA NON-RESTRICTED WASTES
- nor	ganics
	Alkaline solution (pH ≥12.5) with metals (antimony, arsenic,
	barium, beryllium, cadmium, chromium, cobalt, copper, lead,
	mercury, molybdenum, nickel, selenium, silver, thallium,
	vanadium, and zinc)
	Alkaline solution without metals (pH ≥ 12.5)
	Unspecified alkaline solution
	Aqueous solution (2 < pH < 12.5) containing reactive anions
	(azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite,
	perchlorate, and sulfide anions)
	Aqueous solution w/metals (< restricted levels and see waste
	code 121 for a list of metals)
	Aqueous solution with 10% or more total organic residues
	Aqueous solution with <10% total organic residues
	Unspecified aqueous solution
	Off-specification, aged, or surplus inorganics
	Asbestos-containing waste
	Fluid-cracking catalyst (FCC) waste
	Other spent catalyst
	Metal sludge (see 121)
	Metal dust (see 121) and machining waste
	Other inorganic solid waste
	anics
	Halogenated solvents (chloroform, methyl chloride,
	perchloroethylene, etc.)
	Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
	Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)
	Unspecified solvent mixture
	Waste oil and mixed oil
	Oil/water separation sludge
	Unspecified oil-containing waste
	Pesticide rinse water
	Pesticides and other waste associated with pesticide production
	Tank bottom waste
	Still bottoms with halogenated organics
	Other still bottom waste
	Polychlorinated biphenyls and material containing PCB's
	Organic monomer waste (includes unreacted resins)
	Polymeric resin waste
81	Adhesives
01	Latex waste
91	Pharmaceutical waste
11	Sewage sludge
311 321	Sewage sludge Biological waste other than sewage sludge
311 321 322	Biological waste other than sewage sludge
311 321 322 331	Biological waste other than sewage sludge Off-specification, aged, or surplus organics
311 321 322 331 341	Biological waste other than sewage sludge Off-specification, aged, or surplus organics Organic liquids (nonsolvents) with halogens
311 321 322 331 341 342	Biological waste other than sewage sludge Off-specification, aged, or surplus organics Organic liquids (nonsolvents) with halogens Organic liquids with metals (see 121)
311 321 322 331 341 342	Biological waste other than sewage sludge Off-specification, aged, or surplus organics Organic liquids (nonsolvents) with halogens

	12 00020
Slu	dges
	Alum and gypsum sludge
	Lime sludge
	Phosphate sludge
	Sulfur sludge
	Degreasing sludge
461	Paint sludge
	Paper sludge/pulp
	Tetraethyl lead sludge
491	Unspecified sludge waste
Mis	cellaneous
511	Empty pesticide containers 30 gallons or more
	Other empty containers 30 gallons or more
	Empty containers less than 30 gallons
	Drilling mud
	Chemical toilet waste
	Photochemicals / photoprocessing waste
	Laboratory waste chemicals
	Detergent and soap
	Fly ash, bottom ash, and retort ash
	Gas scrubber waste
591	Baghouse waste
	Contaminated soil from site clean-ups
	Household waste
613	Auto shredder waste

	uto snredder waste				
New	HW REPORT MANAGEMENT METHOD CODES Codes Descriptions				
H010	Metals recovery including retorting, smelting, chemicals, etc.				
H020	Solvents recovery				
H039	Other recovery of reclamation for reuse including acid regeneration, organics recovery, etc.				
H050	Energy recovery at this site, use as fuel (includes an site fuel				
H061	Fuel blending prior to energy recovery at another site				
H040	Incinerationthermal destruction other than use as a fuel				
H071	Chemical reduction with or without precipitation				
H075	Cyanide destruction with or without precipitation Chemical oxidation				
H076	Wet air oxidation				
H077					
	Adsorption				
H083 H101	Air or steam stripping Sludge treatment and/or dewatering				
	Absorption				
H111	Stabilization or chemical fixation prior to disposal at another site				
H112	Macro-encapsulation prior to disposal at another site				
H121					
	Evaporation				
	Settling or clarification				
	Phase separation				
H129 H131	Other treatment  Land treatment or application (to include on-site treatment and/or stabilization)				
H132	Landfill or surface impoundment that will be closed as landfill (to include on-site treatment and/or stabilization)				
H134	Deepwell or underground injection (with or without treatment)				
H135	Discharge to sewer/POTW or NPDES (with prior storagewith or without treatment)				
H141	Storage, bulking, and/or transfer off siteno treatment/recovery (H010-H129), fuel blending (H061), or disposal (H131-H135) at this site				

#### **Part A Document Figures**

- Figure II-1: Site Location Map (Topographic)
- Figure II-2: USGS Topographic Quadrangle Map
- Figure II-3: Site Utilities and Easements
- Figure II-4: Site Aerial
- Figure II-5: Assessor's Parcel map
- Figure II-6: Earthquake Fault & Flood Plain Map
- Figure II-7: Zoning Map
- Figure II-8:Shallow Geology and Groundwater
- Figure IV-1: TSU-3 Building Layout
- Figure IV-2: TSU-3 Surrounding Area Layout
- Figure IV-3: TSU-3 Front View / Elevations
- Figure IV-4: Photograph of TSU-3
- Figure IV-5: TSU-1 Building Details
- Figure IV-6: Photograph of TSU-1
- Figure IV-7: Photograph of TSU-1
- Figure IV-8: TSU-2 Building Details
- Figure IV-9: Photograph of TSU-2
- Figure IV-10: Photograph of TSU-2
- Figure IV-11: TSU-8 Surrounding Area
- Figure IV-12: TSU-8 Building Details
- Figure IV-13: TSU-8 Building Details (Side View)
- Figure IV-14: Photograph of TSU-8
  - Figure IV-15: Photograph of TSU-8

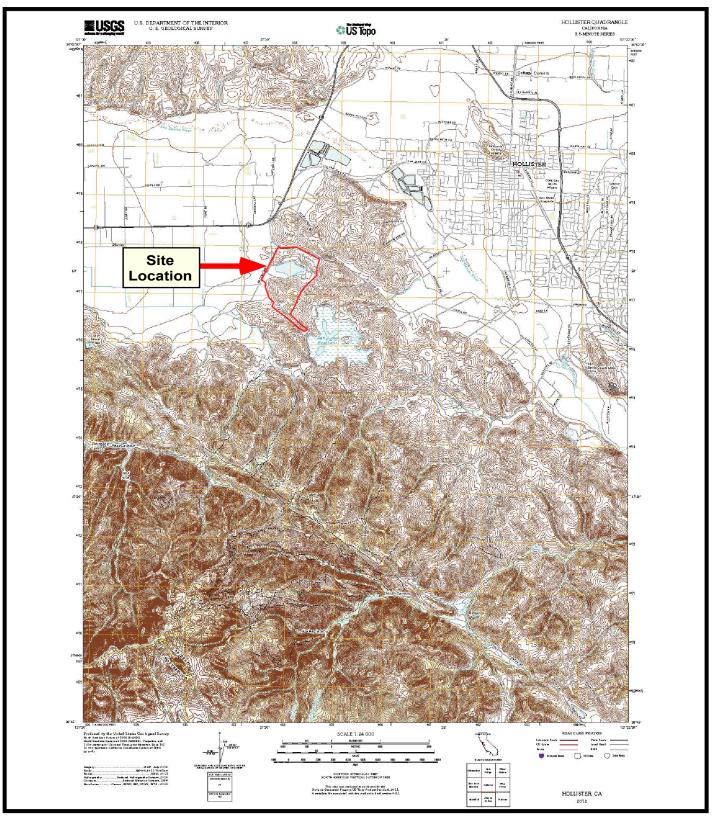


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Location Map
Pacific Scientific Energetic Materials Company
3601 Union Road
Hollister California

FIGURE II-1 Project 2X502



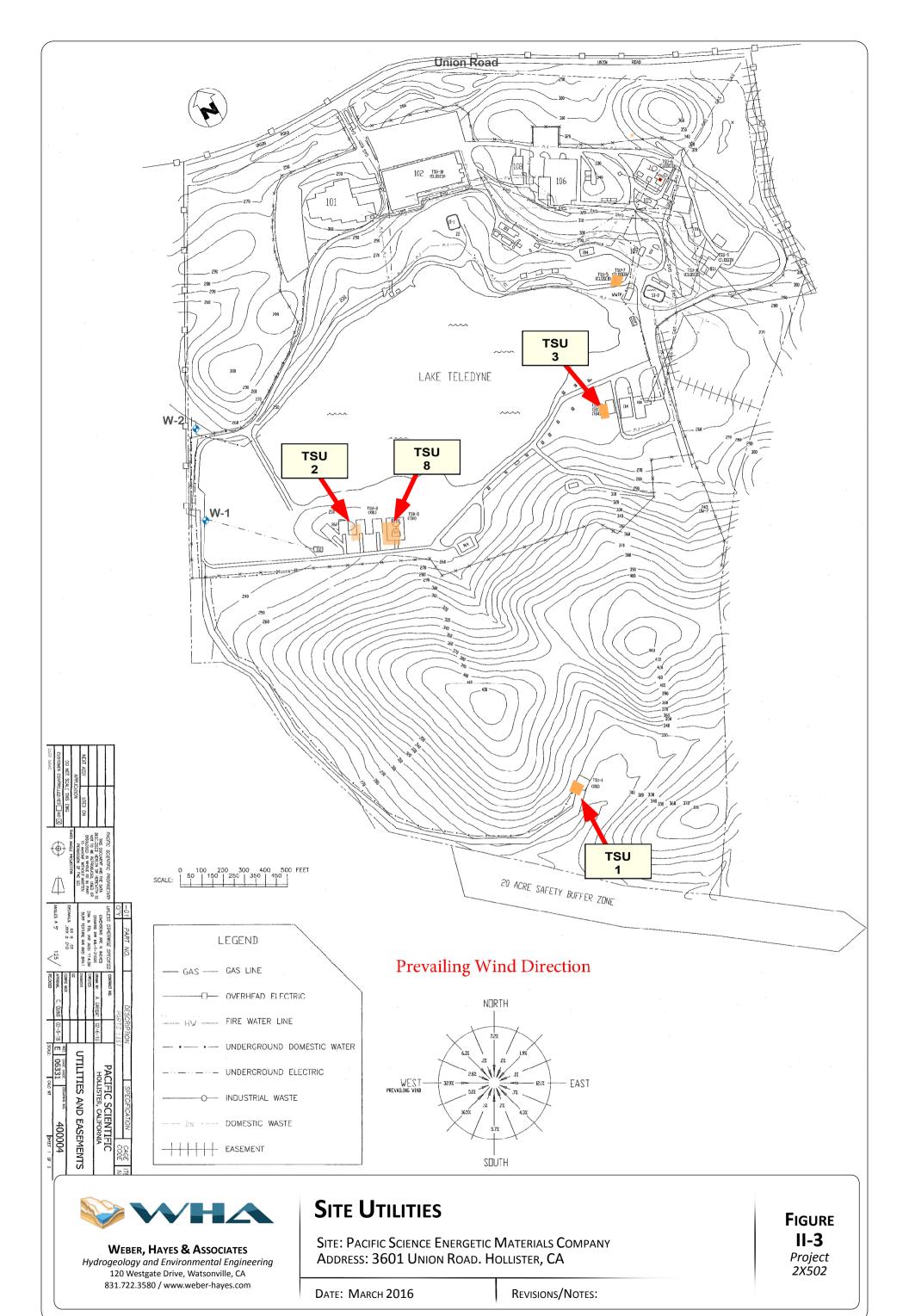
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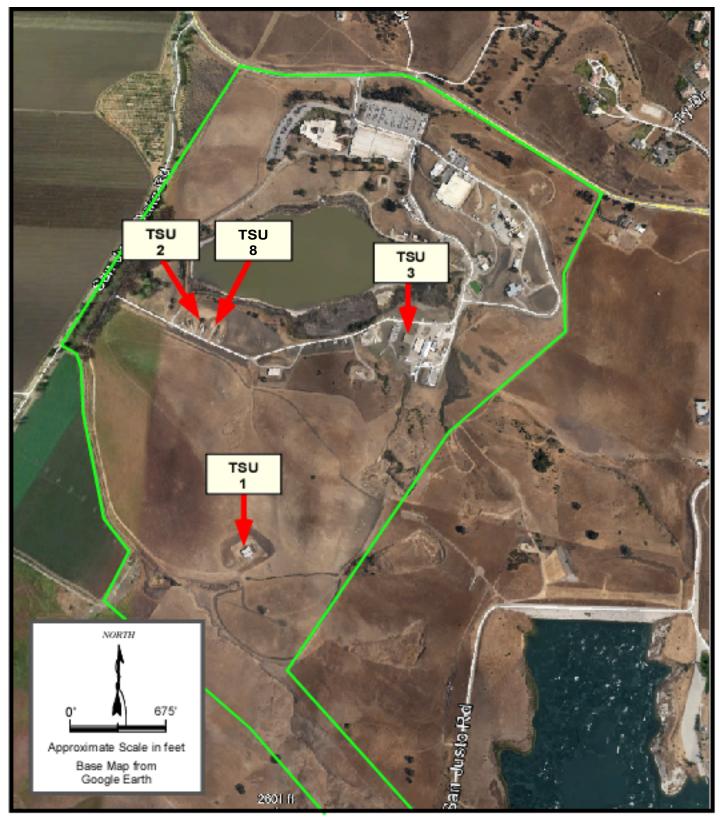


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USGS Topographic Quadrangle Map
Pacific Scientific Energetic Materials
3601 Union Road
Hollister, California

FIGURE II-2 Project 2X502





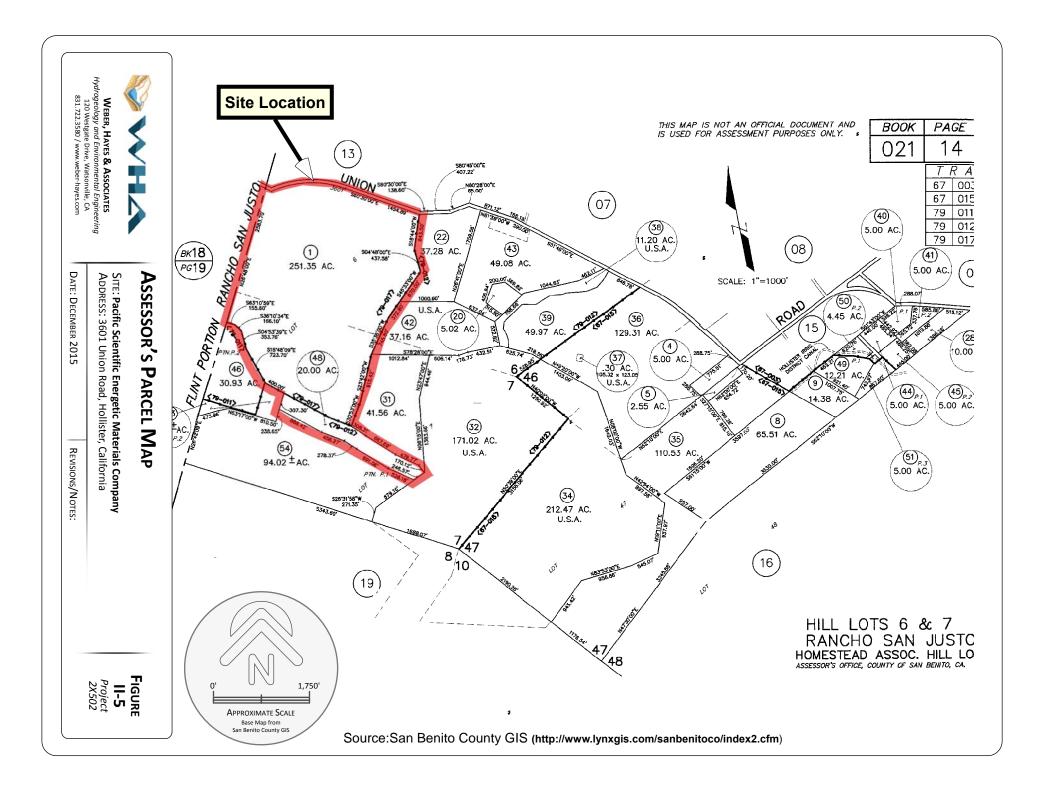
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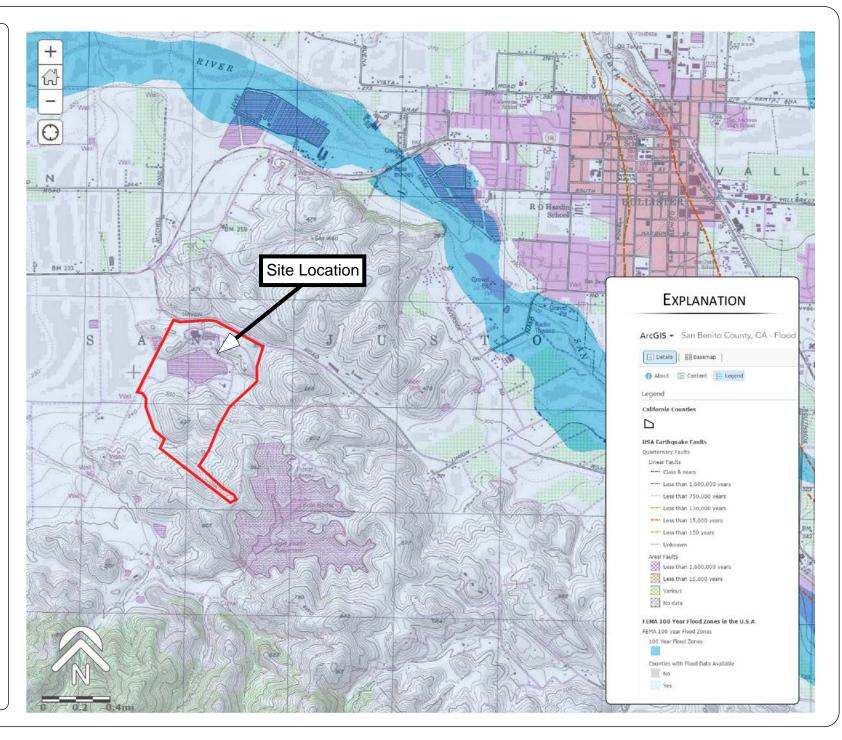


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Site Aerial
Pacific Scientific Energetic Materials
3601 Union Road
Hollister, California

FIGURE II-4 Project 2X502





## VHW &

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# EARTHQUAKE FAULT & FLOOD PLAIN MAP

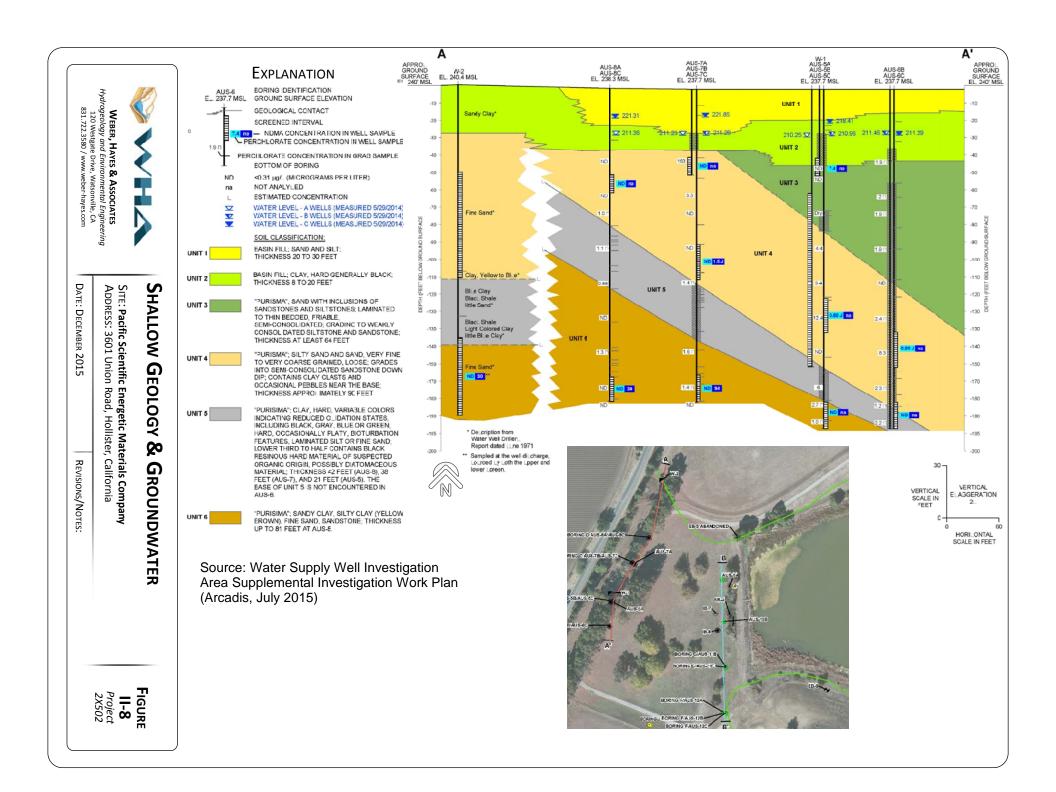
SITE: Pacific Scientific Energetic Materials Company ADDRESS: 3601 Union Road, Hollister, California

REVISIONS/NOTES:

DATE: DECEMBER 2015

II-6

Source:San Benito GIS (https://cosb.maps.arcgis.com/home/webmap/viewer.html?webmap=119fc58254c749ad95c1f1ecd99f7d6c) WEBER, HAYES & ASSOCIATES ogeology and Environmental Engineering 120 Westgate Drive, Watsonville, CA 831.722.3580 / www.weber-hayes.com + 6 BM 233" AP/PUD Site Location DATE: DECEMBER 2015 SITE: Pacific Scientific Energetic Materials Company ADDRESS: 3601 Union Road, Hollister, California ZONING MAP AP **EXPLANATION** Wel County Zoning (All Scales) Agricultural AP/PUD REVISIONS/NOTES: AR AR/MR Commercial **BPCRF** C1 C2 Industrial M2 MR M2/MR Planned PF FIGURE II-7
Project 2X502 Residential R1 R1/PUD



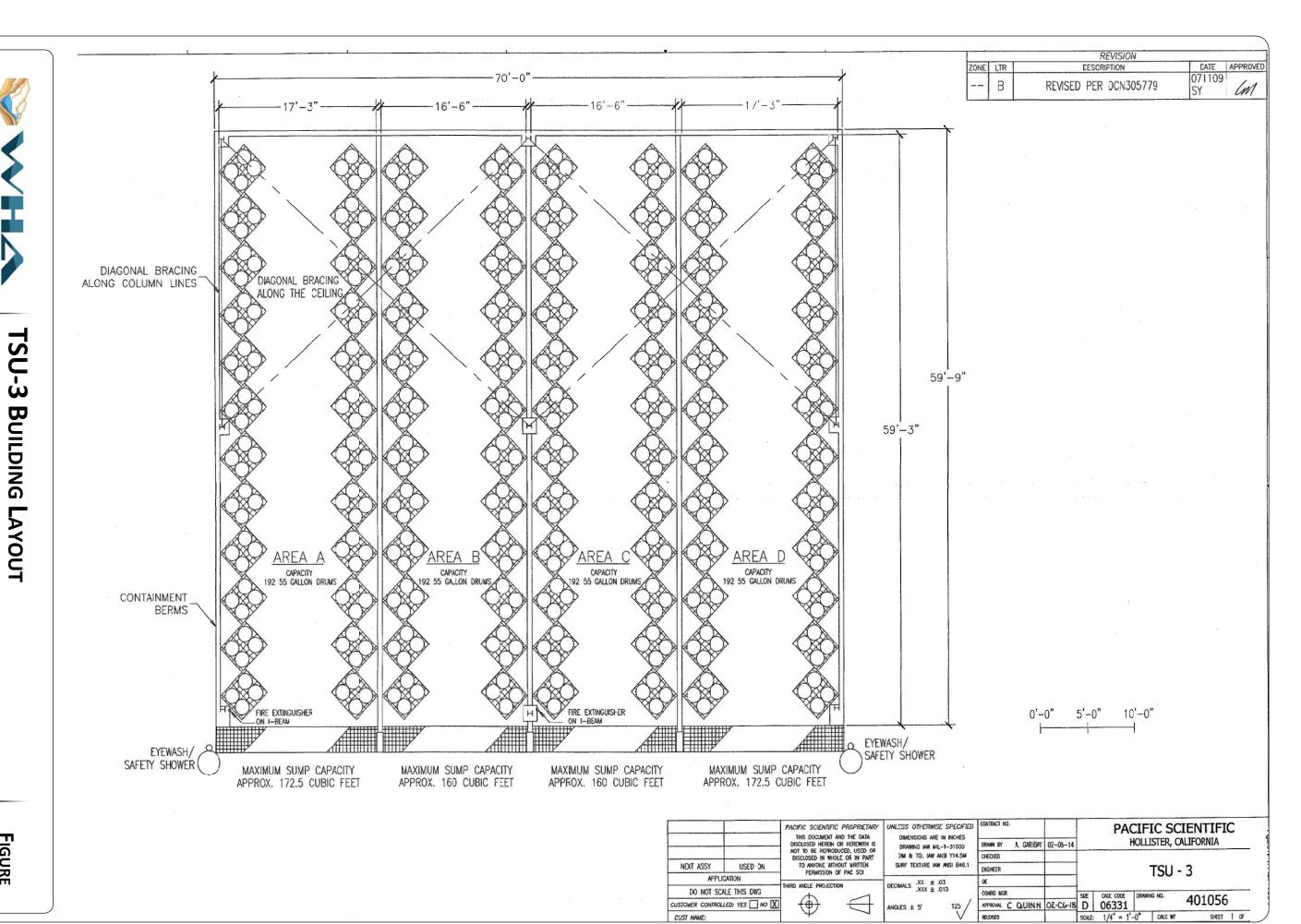


FIGURE
IV-1
Project
2X502

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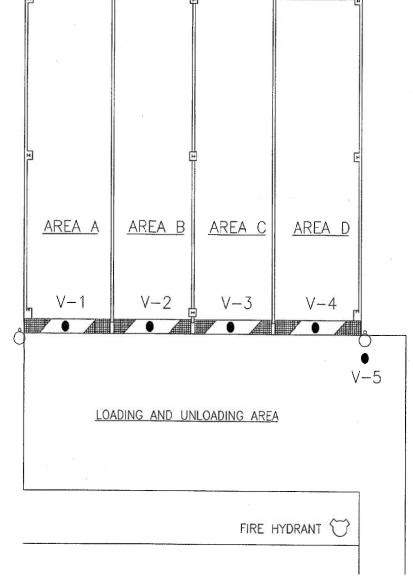
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REVISION

ZONE LTR DESCRIPTION DATE APPROVED

-- B REVISED PER DCN305779 SY LM



**BUILDING 114** 

0'-0" 10'-0" 20'-0"

TSU-3

TSU-3 SURROUNDING AREA LAYOUT

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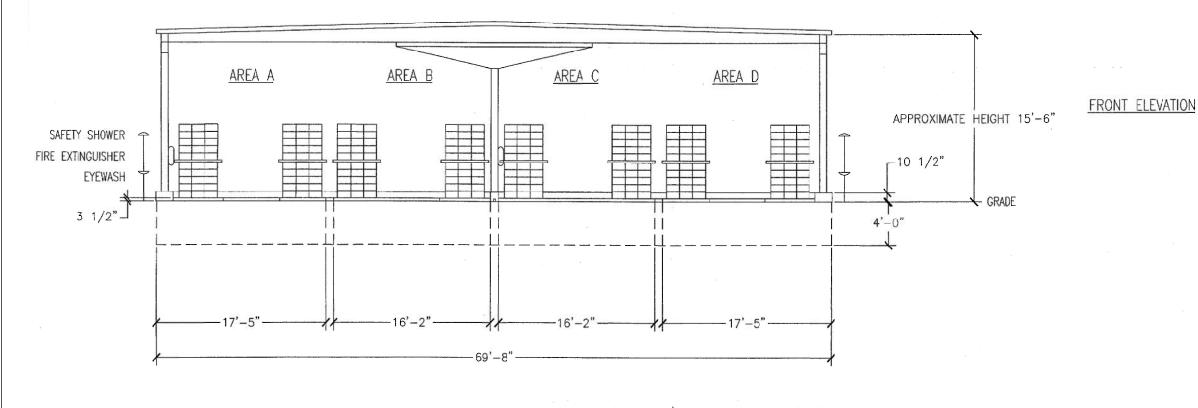
FIGURE IV-2
Project 2X502

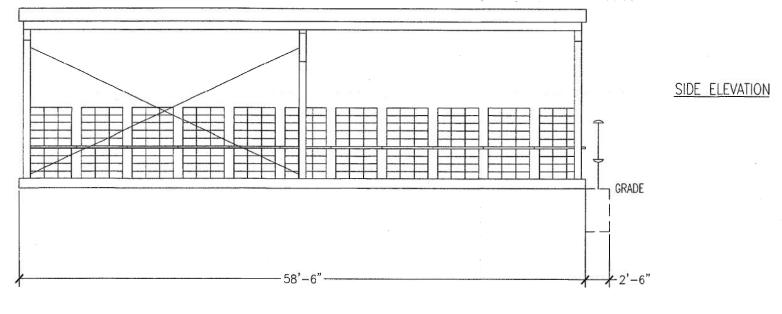
LEGEND:

V-1: VERIFICATION WIPE SAMPLE

		PACIFIC SCENTIFIC PROPRIETARY THIS DOCUMENT AND THE DATA DISCLOSED HERBIN OR HERBINTH IS NOT TO BE REPRODUZED, USED OR	UNLESS OTHERWISE SPECIFIED DIMENSIONS AFE IN INCHES DRAWING JAW MIL-T-31000 DIM & TOL IAW ANSI Y14:5M SURF TEXTURE JAW ANSI B46:1	CONTRACT NO.		PACIFIC SCIENTIFIC		
				DRAWN BY A. GARIBAY	02-05-14	HOLLISTER, CALIFORNIA		
		DISCLOSED IN WHOLE OR IN FART		CHECKED		TSU - 3		
NEXT ASSY	USED ON	TO ANYONE WITHOUT WRITTEN PERMISSION OF PAC SCI		ENGINEER				
APPLICATION				QE .				
DO NOT SCALE THIS DWG		THIRD ANGLE PROJECTION		CONFIG MCR				
CUSTOMER CONTROLLED: YES 🗌 NO 💢		ANGLES = 5 125	APPROVAL C. QUINN	02-06-18	SZE CAGE CODE DRAMING NO. 401058			
CUST NAME:			\ \ \	RELEASED		SCALE: 1/8" = 1'-0"   CALC WT   SHEET 1 OF 1		

REVISION ZONE LTR DESCRIPTION DATE APPROVED 071109 IM В REVISED PER DCN305779





0'-0" 5'-0" 10'-0"

FIGURE
IV-3
Project
2X502

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TSU-3

FRONT VIEW

**ELEVATIONS** 

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TO ANYONE WITHOUT WRITTEN
PERMISSION OF PAC SCI DIMENSIONS ARE IN INCHES HOLLISTER, CALIFORNIA CRAWN BY A. CARIBAY 02-05-15 DRAWING IAW MIL-T-31000 DIM & TOL IAW ANSI Y14,5M CHECKED **ELEVATIONS** NEXT ASSY USED ON SURF TEXTURE VAN ANSI B46.1 ENGINEER APPLICATION **TSU - 3** EECIMALS .XX ± .03 IRD ANGLE PROJECTION DO NOT SCALE THIS DWG CONFIG MGR SIZE CAGE CODE APPROVAL C.QUINN 02-06-18 D 06331 **(** 401057 CUSTOMER CONTROLLED: YES NO X ANGLES ± 5 SHEET 1 OF 1 SCALE: NONE CALC WT

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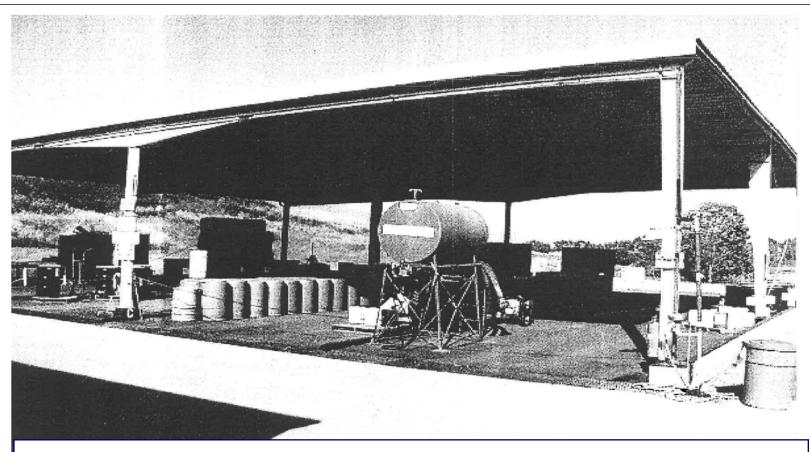
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DATE: MARCH 2016

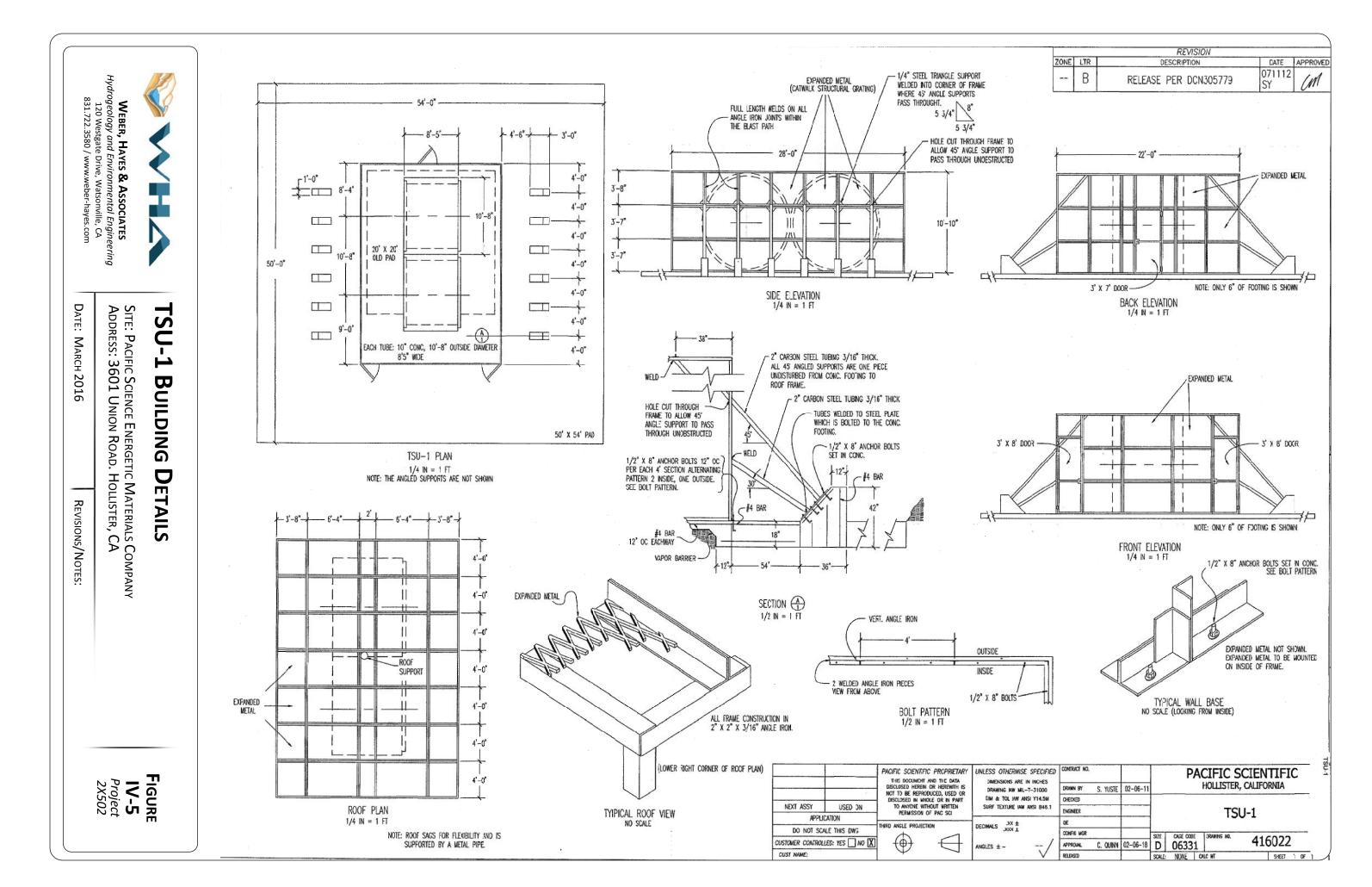
Project



TSU-3 is for the storage of containers of hazardous wastes generated at the Facility. Hazardous wastes are segregated into the Bays at TSU-3 based on chemical compatibility.

- Bay A stores caustics, cyanides, sulfides, and aqueous solutions with pH of 5 to 9.
- Bay B stores halogenated hydrocarbons, non-flammable liquids, and aqueous solutions with pH of 5 to 9.
- Bay C stores acids.
- Bay D is used to store flammable liquids, reducing agents, metal catalysts, carbon, fuels, and combustible liquids.

TSU-3 is a roofed structure with open sides having a 6-inch thick reinforced concrete slab surrounded on three sides by a concrete block berm. The unbermed front side of TSU-3 has individual grated sumps for each of the four Bays which prevent run-on and collect spills and any rain which may blow into the Bays. The Bays are separated from each other by reinforced concrete dikes, which are bolted and epoxy bonded to the coated concrete floor of the Bay. Each Bay has an identical max capacity of 192 ea., 55-gallon drums (four drums per pallet, stacked two pallets high).



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ad, Hollister, California

DATE: MARCH 2016

Proje





TSU-1 contains two 10-foot diameter, reinforced concrete pipes (burn tubes) which are enclosed in a reinforced, expanded metal mesh cage (22' W x 28' D x 10'10" H). The mesh cage is surrounded by concrete walls, installed in 2002, and on three sides by an earth bank and earth barricades over 15 feet high.

The pipes rest on a six-inch thick concrete slab reinforced with steel bars. The cage is bolted to the concrete slab and structurally supported by cantilever supports attached to external foundation blocks. The dimensions of the concrete slab are 54-foot W x 50-foot D. There is a 66-foot by 62-foot, corrugated metal roof structure over the mesh cage and concrete slab.

The maximum capacity is 500 pounds gross weight of hazardous waste per day for open burning and 100 pounds Net Explosive Weight (NEW) per day for detonation. Not over six (6) pounds NEW of material, which is expected to mass detonate, is allowed in each burn tube.

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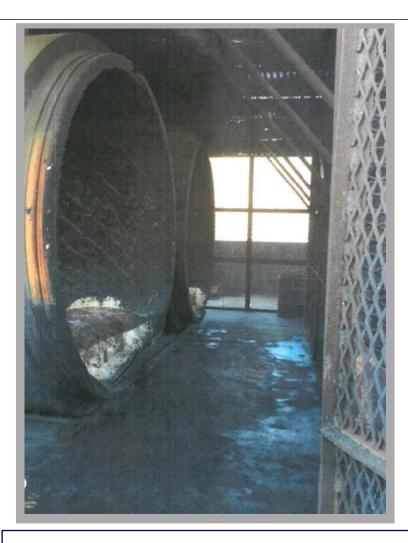
## PHOTOGRAPH OF TSU-1

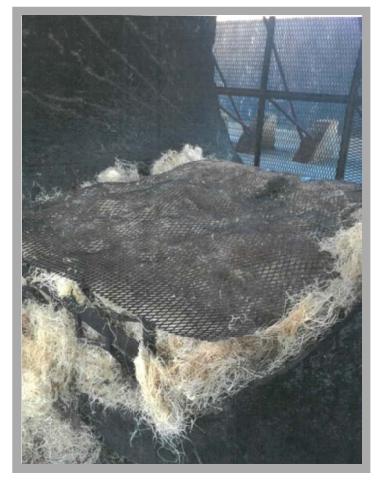
SITE: Pacific Scientific Energetic Materials Company ADDRESS: 3601 Union Road, Hollister, California

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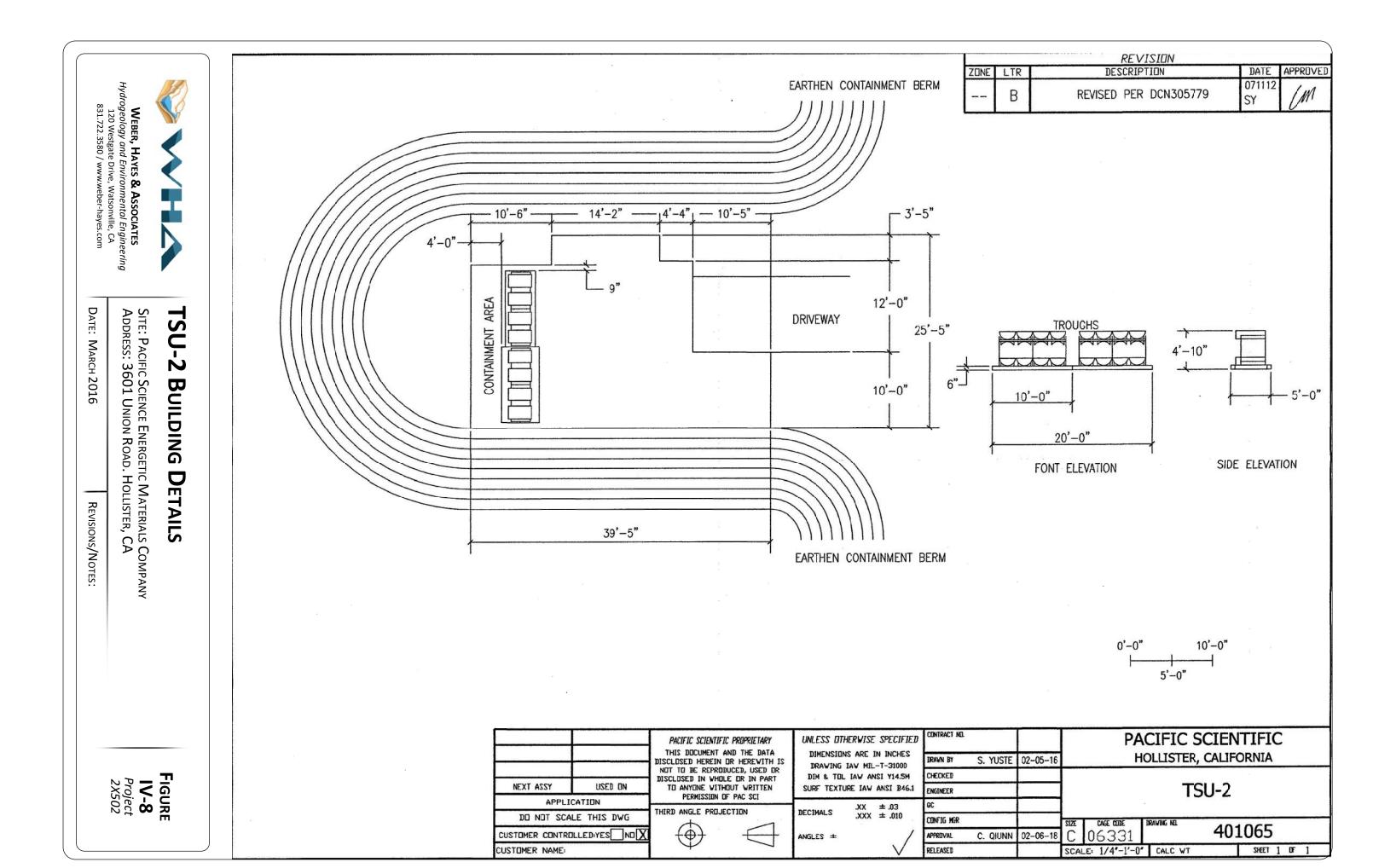
Project





Explosive hazardous waste (EHW) and EHW contaminated waste is burned/detonated at TSU-1. Subsequent secondary and tertiary burning is conducted as needed to ensure complete treatment of the reactive materials.

- Over 95% of the EHW treated at TSU-1 is contained in explosive devices made of metal.
- The Explosive Hazardous Waste in Solvents (EHWS) residue from TSU-2 makes up about 5% of the waste treated.
- Ash generation is limited to the cellulose fuel used (shown in photo above, right), to small amounts from EHW contaminated organic material, and to loose EHW in the form of granules, pellets, or billets. Ash from TSU-1 with lead content is collected and managed as hazardous waste through TSU-3. Other ash from TSU-1 is managed as non-hazardous waste, as is scrap metal.



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# PHOTOGRAPH OF TSU-2

SITE: Pacific Scientific Energetic Materials Company ADDRESS: 3601 Union Road, Hollister, California

REVISIONS/NOTES:

DATE: MARCH 2016

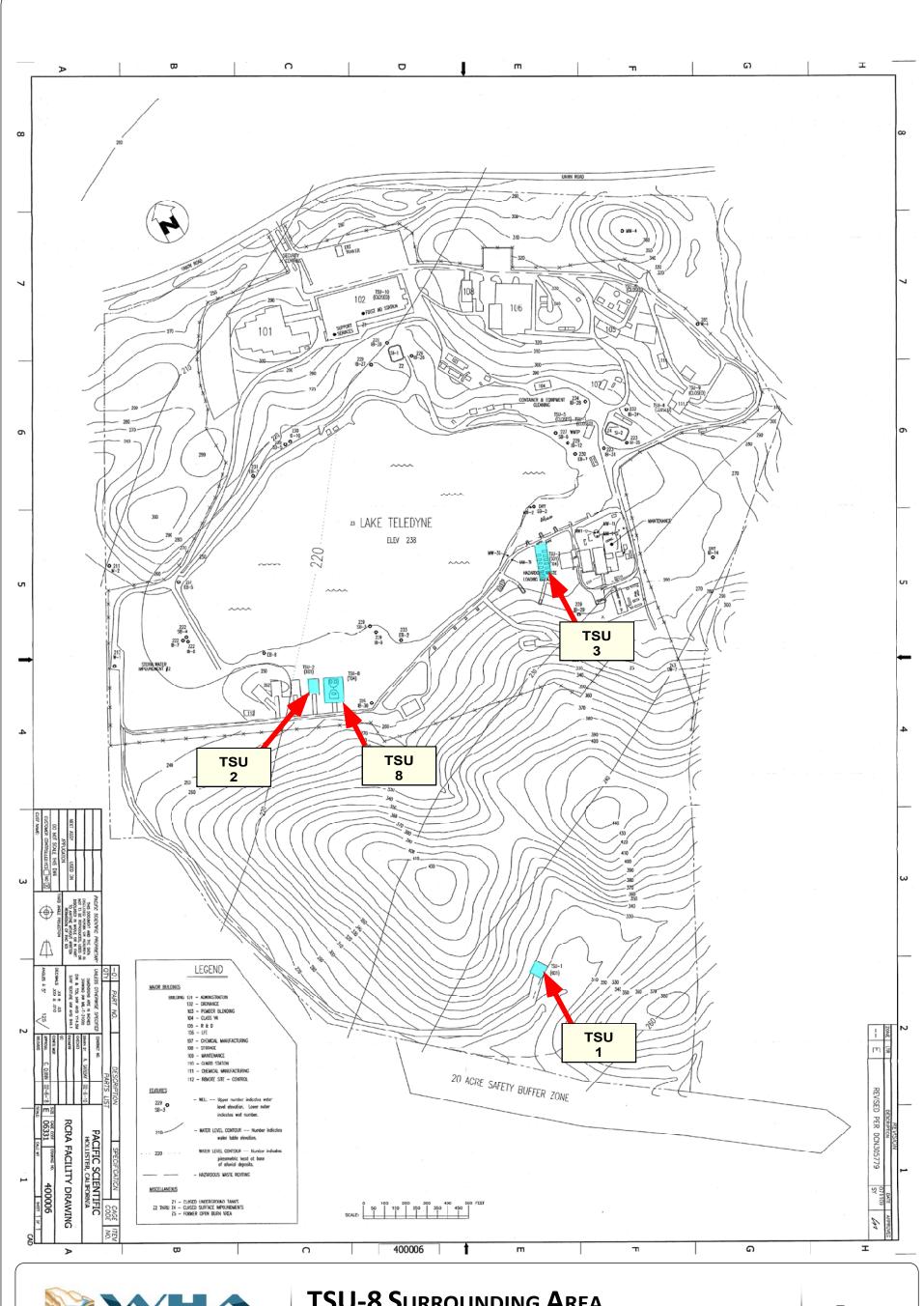
Projec



Explosive hazardous waste in solvent (EHWS) is burned in open horizontal, split steel troughs supported by steel racks in a double boiler arrangement. Contaminated solvents containing relatively more water or lower volatility are placed in the upper container. The fire is initiated remotely in the lower container. EHWS is not placed into the unit until just before burning is started. The treatment capacity is 300 gallons per day.

Between treatments, the upper troughs contain less than five gallons of material with free liquid and the lower troughs contain dry ash. Residue from TSU-2 is treated in TSU-1 to ensure complete treatment of its reactivity. If empty, the troughs and secondary containment pans are removed (as pictured above) or inverted during expected periods of rain.

TSU-2 consists of four sets of open, horizontal, split steel troughs supported by steel racks in a double boiler arrangement. The troughs are made from 55-gallon carbon or stainless steel drums cut on the height axis to have a volume for 30 gallons of fluid and a five-inch freeboard. Two racks with eight troughs rest in a 0.1875-inch thick welded, stainless steel secondary containment pan. There are two secondary containment pans. One is four feet by ten feet and 0.489 feet deep (146 gallons). The other secondary containment pan is 4.98 feet wide by ten feet and 0.489 feet deep (183 gallons).





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Hydrogeology and Environmental Engineering 120 Westgate Drive, Watsonville, CA 831.722.3580 / www.weber-hayes.com

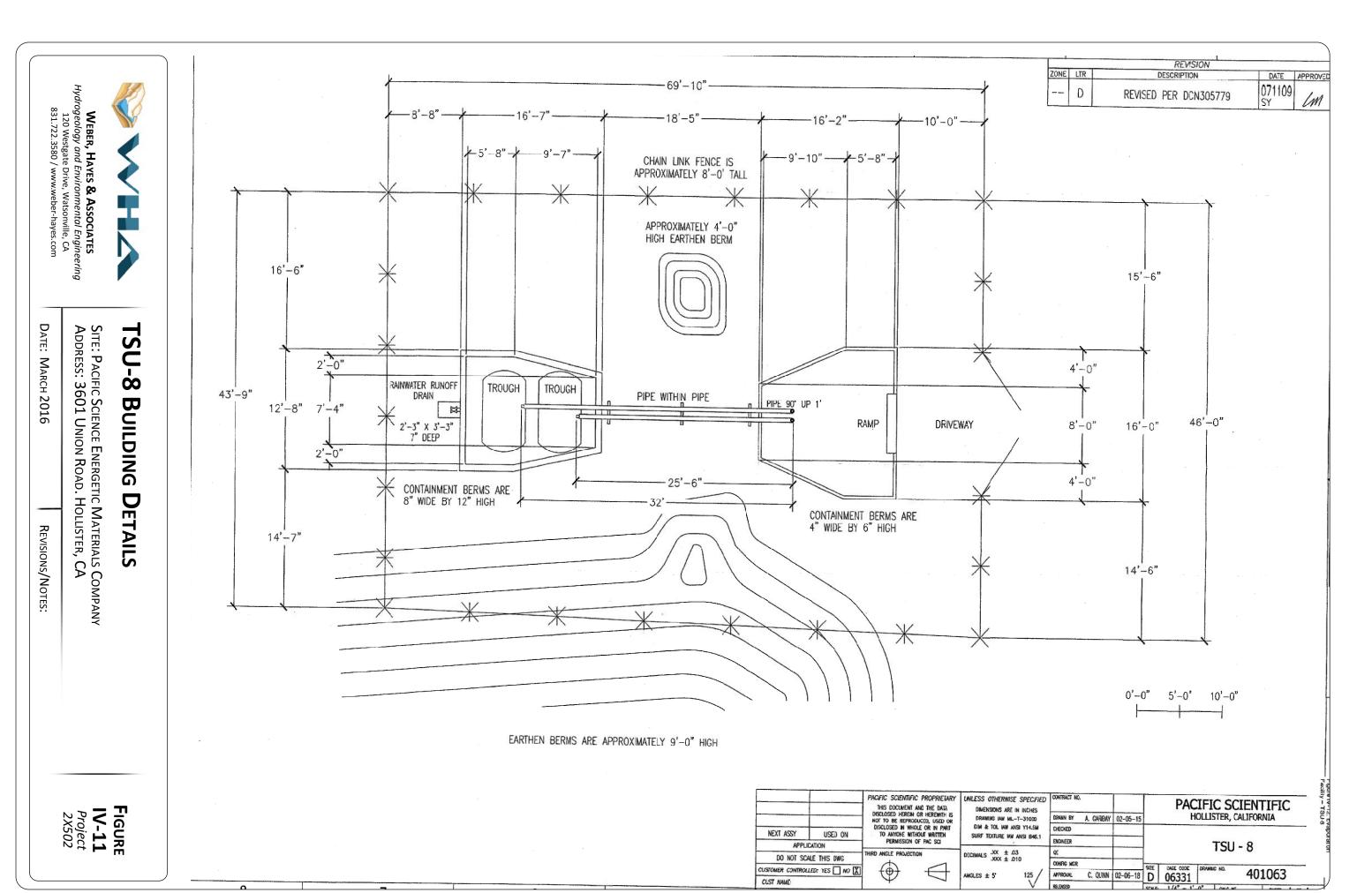
## **TSU-8 SURROUNDING AREA**

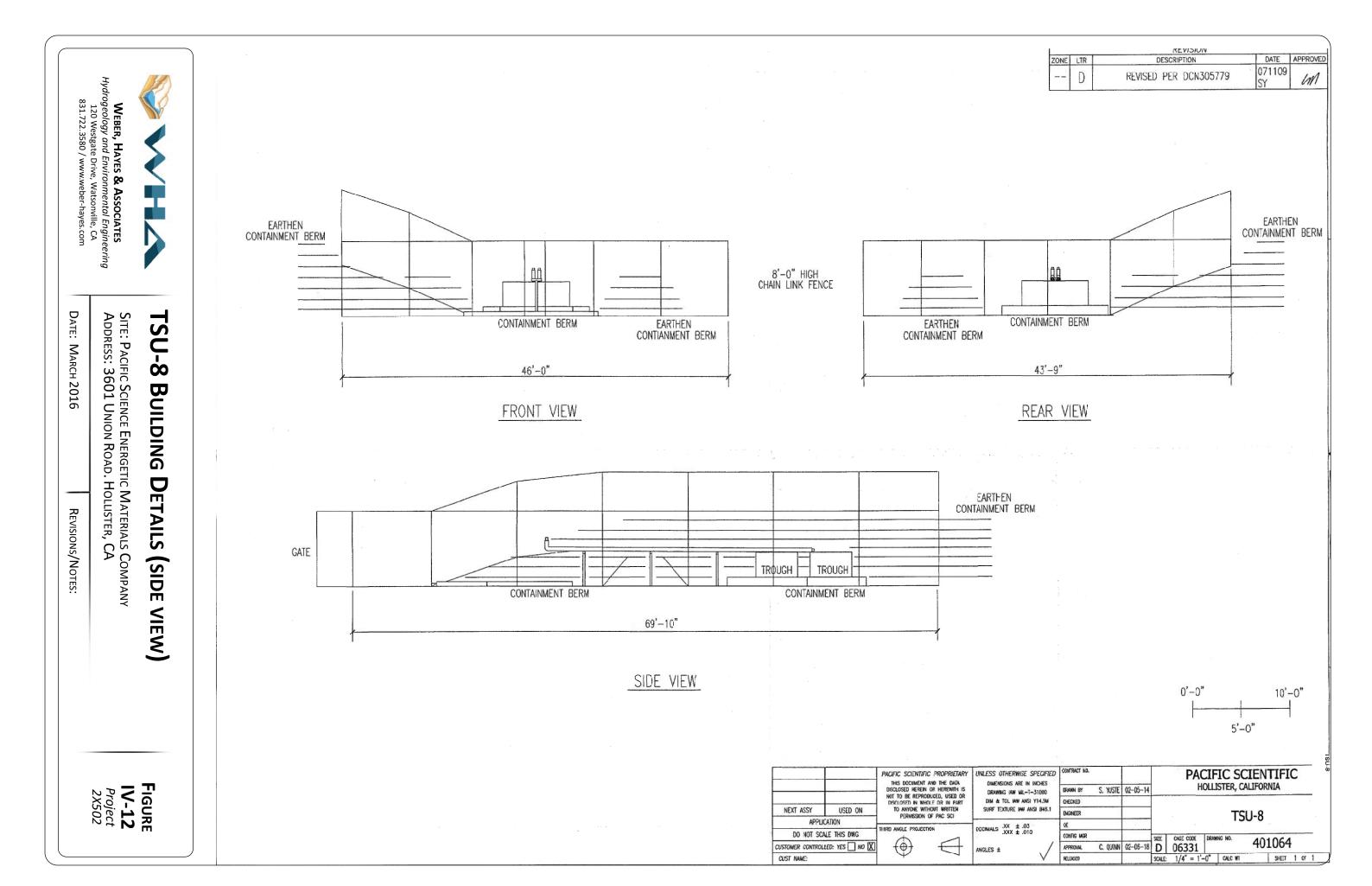
SITE: PACIFIC SCIENCE ENERGETIC MATERIALS COMPANY ADDRESS: 3601 UNION ROAD. HOLLISTER, CA

DATE: MARCH 2016

REVISIONS/NOTES:

**F**IGURE **IV-10** Project 2X502





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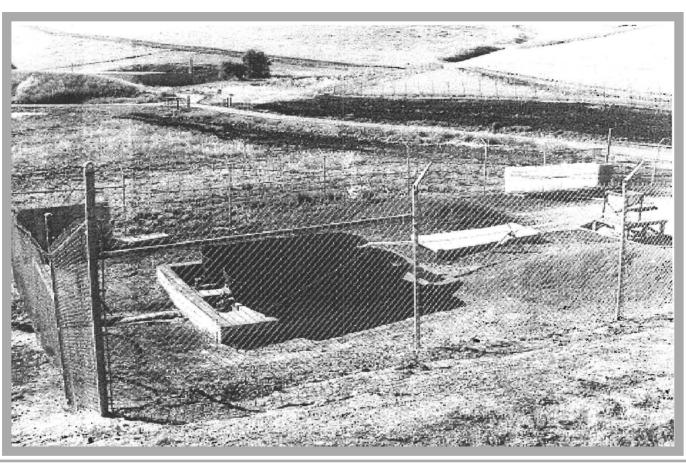
# PHOTOGRAPH OF

SITE: Pacific Scientific Energetic Materials Company ADDRESS: 3601 Union Road, Hollister, California

Hollister, California

DATE: MARCH 2016

Project 2X502



TSU-8 consists of two open troughs used to naturally evaporate Safety Bucket water (water-containing explosives). When enough water has evaporated to result in a thick turbidity, the concentrated hazardous waste is transferred to TSU-1 or TSU-2, added to other EHWS and burned. No volatile organic compounds are present in the Safety Bucket Water. Daily evaporation varies from near zero during cold rainy weather when precipitation covers are in place, to over ten gallons during hot, dry, windy weather.

The two evaporation troughs are coated with a 100% solids coal tar polyurethane elastomer (Endura-Flex 1947) coating to a minimum thickness of 100 mils and are located within a concrete secondary containment pad filled by a gravity feed pipe from an unloading area. Safety Bucket Water is siphoned or hand-pumped from a container in an environmental support vehicle into the feed pipes in the unloading area which empty into the evaporation troughs. The feed pipes are pipe-in-pipe construction with a 2-inch diameter stainless steel inner pipe and a 4-inch diameter polyvinyl chloride (PVC) outer pipe. The troughs are constructed of three-sixteenths of an inch thick carbon steel with welded heads. The troughs are half cylinders with slightly domed ends. Each trough is approximately 4.32 feet in diameter and 11.3 feet long.

## **Part A Document Table**

Summary of Waste Explosives at TSU-1
Components of Waste Explosives Treated at TSU-1
Summary of Waste Solvents & Explosives at TSU-2
Hazardous Waste Stored in Containers at TSU-3

**Table 1. Summary of Waste Explosives at TSU-1**[ Source: Human Health and Ecological Risk Assessment Work, Plan ToxStratigies, November 25, 2015 }

Totals	2005 - 2009	2010 - 2014	2005 - 2014
Sum if individual explosive component			
>0.3%	93%	97%	94%

	2005 - 2009 % of net	2010 - 2014 % of net	2005 - 2014 % of net
Chemical	explosives	explosives	explosives
134082	0.000%	0.000%	0.000%
134112	0.000%	0.000%	0.000%
510005	0.258%	0.026%	0.131%
510149	0.002%	0.000%	0.001%
510164	0.000%	0.006%	0.003%
510172	0.394%	0.000%	0.179%
510174	0.016%	0.001%	0.008%
510184	0.164%	0.000%	0.074%
510199	0.025%	0.000%	0.011%
510204	0.497%	0.813%	0.670%
510207	0.004%	0.000%	0.002%
510212	0.685%	0.013%	0.318%
510251	0.003%	0.000%	0.002%
510333	0.113%	0.000%	0.051%
510395	0.585%	1.27%	0.958%
510414	0.249%	0.051%	0.141%
510425	0.021%	0.056%	0.040%
510427	0.000%	0.005%	0.003%
510503	0.005%	0.005%	0.005%
510504	0.000%	0.005%	0.003%
510507	0.212%	0.039%	0.117%
510532	2.25%	0.103%	1.07%
510556	0.236%	0.259%	0.249%
510561	0.000%	1.09%	0.598%
510572	1.41%	0.439%	0.879%
510575	0.226%	2.77%	1.62%
510577	0.000%	1.39%	0.758%
510578	0.374%	4.58%	2.67%
518837	0.002%	0.000%	0.001%
660512	0.010%	0.000%	0.005%
1166517	0.010%	0.000%	0.005%
A1A Powder	0.082%	0.000%	0.037%
Ag2B12H12	0.000%	0.016%	0.009%
AIM-57 510563	0.069%	0.118%	0.096%
ALCLO	0.008%	0.000%	0.003%
Aluminum Powder	0.252%	0.097%	0.167%
Ammonium Borane	0.000%	0.023%	0.013%
Ammonium Perchlorate	28.8%	36.9%	33.2%
Apex 92 Propellant	1.03%	1.06%	1.05%
B/BaCrO4 510203	0.436%	0.085%	0.244%

Table 1. Summary of Waste Explosives at TSU-1

Totals	2005 - 2009	2010 - 2014	2005 - 2014
Sum if individual explosive component			
>0.3%	93%	97%	94%

	2005 - 2009 % of net	2010 - 2014 % of net	2005 - 2014 % of net
Chemical	explosives	explosives	explosives
BATW	0.000%	0.000%	0.000%
BF	0.000%	0.061%	0.033%
BKN03	16.6%	8.6%	12.2%
Black Powder	0.231%	0.000%	0.104%
BNCB	0.029%	0.002%	0.015%
CaCr04	0.328%	0.000%	
СВК	0.228%	0.000%	
Cellulose Nitrate	0.230%	1.70%	1.04%
CH-6 510218	3.8%	17.4%	11.2%
DAAB	0.009%	0.000%	0.004%
DAZAB	0.000%	0.000%	0.000%
DCB	0.000%	0.000%	0.000%
DCTNB	0.000%	0.000%	
DDNP	0.034%	0.000%	0.015%
DNBF	0.000%	0.000%	0.000%
Flash Mix	0.000%	0.009%	0.005%
GN	0.204%	0.000%	0.093%
H2GEN	0.029%	0.000%	0.013%
HACN	0.000%	1.766%	0.966%
HB2	0.008%	0.000%	0.003%
HES 510018	0.015%	0.529%	0.296%
HEXAN	0.009%	0.000%	0.004%
Hi-Temp Smokless Powder	0.111%	0.401%	0.270%
HIPEL	3.97%	3.02%	3.45%
HMX 510190	2.60%	2.19%	2.38%
HNS 510285	11.0%	5.2%	7.8%
IMR Hi-Temp Smokeless Powder	0.284%	0.000%	0.129%
J2X Propellant	0.000%	0.383%	0.209%
KCL04	0.117%	0.000%	0.053%
KDNBF	0.000%		
KDSB	0.228%	0.000%	
KP	0.000%	0.000%	
Lead Azide 510192	0.300%		
Lead Dioxide	0.059%		
Lead Styphnate 510565	0.202%		
M-9 Flakes	0.021%		
Magnesium Oxide	0.292%		
Magnesium Powder	0.840%		
Mg Teflon 510026	0.796%		
N-12 Propellent	0.106%		
NaCe	0.000%		
Nitro Starch	0.166%		
Nitrocellulose	0.059%		
NONA	0.000%	0.003%	0.002%

Table 1. Summary of Waste Explosives at TSU-1

Totals	2005 - 2009	2010 - 2014	2005 - 2014
Sum if individual explosive component			
>0.3%	93%	97%	94%

	2005 - 2009 % of net	2010 - 2014 % of net	2005 - 2014 % of net
Chemical	explosives	explosives	explosives
PBXN-5 510556	0.810%	•	0.787%
PE-130	0.005%	0.000%	0.002%
PE-132	0.007%		
PE-137	0.011%	0.000%	0.005%
PE-151	0.003%	0.000%	0.002%
PE-170	0.000%		
PE-171	0.016%		
PE-172	0.004%		
PE-176	0.019%	0.000%	
PE-179	0.085%		
PE-181	0.002%		
PE-181 PE-187	0.002%		
PE-191	0.003%		
PE-194	0.154%		
PE-196	0.217%		
PE-197	0.002%		
PE-198	0.002%		
PE-200	0.019%		
PE-201	0.066%		
PE-208	0.010%		
PE-211	1.36%	0.365%	
PE-212	0.003%		
PE-217	0.001%		
PE-220	0.035%		
PE-228 PE-230	0.031%		
PE-230 PE-231	0.058% 0.059%		
PE-232	0.059%		
PE-236	0.002%		
PE-240	4.08%		
PE-253	0.012%		
PE-255	0.015%		
PE-256	0.003%	0.000%	0.002%
PE-261	0.004%	0.000%	0.002%
PE-270	0.001%		
PE-277	0.292%		
PE-279	0.004%		
PE-280	0.002%		
PE-281	0.012%		
PE-285	0.002%		
PE-9 PE-9	0.092% 0.015%		
PETN 510193	0.015%		
PICL	0.000%		
I ICL	0.000%	0.001%	0.001%

Table 1. Summary of Waste Explosives at TSU-1

Totals	2005 - 2009	2010 - 2014	2005 - 2014
Sum if individual explosive component			
>0.3%	93%	97%	94%

	2005 - 2009 % of net	2010 - 2014 % of net	2005 - 2014 % of net
Chemical	explosives	explosives	explosives
Potassium Perchlorate	1.46%	3.09%	2.35%
Prime Mix	0.000%	0.010%	0.005%
PYX	1.23%	0.000%	0.556%
QAZ	0.000%	0.254%	0.139%
QIC1086	0.000%	0.012%	0.007%
QIC1099	0.010%	0.000%	0.005%
QIC1100	0.002%	0.000%	0.001%
QIC1101	0.035%	0.000%	0.016%
QIC948	0.002%	0.000%	0.001%
RDX 510015	3.80%	0.418%	1.95%
Smokeless Powder	0.000%	0.042%	0.023%
TACOT	0.001%	0.000%	0.000%
Tetracine	0.066%	0.000%	0.030%
Tetryl	0.032%	0.000%	0.015%
TIOX	0.016%	0.000%	0.007%
Titanium Powder	0.212%	0.402%	0.316%
TNT	0.328%	0.000%	0.149%
Tungsten Delay Mix	1.67%	0.630%	1.10%
Tungsten Powder	0.348%	0.154%	0.242%
WS7188	0.010%	0.000%	0.005%
Zirconium Metal Powder	1.092%	0.002%	0.496%
ZPP 510010	0.054%	0.052%	0.053%
TOTALS	100%	100%	100%

## Notes

Shaded values are greater than 0.3% of total explosives

Table 3. Components of Explosive Materials Treated at TSU-1 Included in HHERA

Explosive Material	Reactive	Oxidizer	Fuel
510204		Barium Chromate	Boron
510395		Teflon	Magnesium
310393		Barium Chromate	Boron
	Ammonium Perchlorate	Ferric Oxide	НТРВ
510561			IDP
			IDPI
510572			Magnesium
510372			Viton
	Ammonium Perchlorate	Ferric Oxide (Anhydrous	Ammonium Oxalate
			IDPI
510575			Epon 828
			Polybutadiene/Acrylonitrile Compound
			Epon 828
	Ammonium Perchlorate	Ferric Oxide (Anhydrous)	HTPB/Curative
510577			DOA
			IDPI
	Ammonium Perchlorate		Aluminum
			HTPB/Curative
510578			DOA
			IDPI
			N-100
Ammonium Perchlorate	Ammonium Perchlorate		
	Ammonium Perchlorate	Ferric Oxide (Anhydrous	Ammonium Oxalate
Apex 92 Propellant			Polybutadiene/Acrylonitrile Compound
			Epon 828
BKN03 510005		Potassium Nitrate	Laminac
DIVIO2 210002			Boron
Cellulose Nitrate (Nitrocellulose)	Cellulose Nitrate (Nitrocellulose)		

Table 3. Components of Explosive Materials Treated at TSU-1 Included in HHERA

Explosive Material	Reactive	Oxidizer	Fuel
CH-6 (510218)	RDX		Dioctyl Adipate
(310218)			Ethylacrylate Acrylic Acid
HACN	Hexamine Cobalt Nitrate		
	НМХ		Dioctyl Adipate
HES (510018)			Ethylacrylate Acrylic Acid
			Polyacrylate
HIPEL	Ammonium Perchlorate	Ferric Oxide (Anhydrous)	HTPB/Curative
Hi-Temp Smokeless Powder	RDX		
HMX 510190	HMX		
HNS 510285	Hexanitrostilbene		
	Ammonium Perchlorate		Aluminum
J2X Propellant			IPDI
			N-100
Mag Teflon (510026)			Magnesium
PBXN-5 (510556)	НМХ		Hycar
PE-211		Potassium Perchlorate	Boron
FL-211			Viton B
Potassium Perchlorate	Potassium Perchlorate		
RDX	RDX		Polyacrylate
Titanium Powder	Titanium		
Tungsten Delay Mix	Potassium Perchlorate	Barium Chromate	Tungsten
Zirconium	Zirconium		

Table 4. Summary of Waste Solvents and Explosives at TSU-2

[ Source: Human Health and Ecological Risk Assessment Work, Plan ToxStratigies, November 25, 2015 }

	2005 - 2009	2010 - 2014	2005 - 2014
Sum if individual component >0.1%	99.7%	99.8%	99.4%

	2005 - 2009 % of total	2010 - 2014 % of total	2005 - 2014 % of total
Chemical	treated	treated	treated
510172	0.001%	0.002%	0.001%
510532	0.002%	0.002%	0.002%
510556	0.014%	0.016%	0.015%
Acetone	8.187%	68.298%	30.320%
Acetonitrile	11.403%	0.000%	7.205%
Ag2B12H12	0.000%	0.094%	0.035%
AIM-57 510563	0.000%	0.019%	0.007%
BATW	0.068%	0.000%	0.043%
BKN03 510005	0.007%	0.003%	0.005%
Butyl Acetate	0.284%	0.273%	0.280%
DAAB	0.072%	0.000%	0.046%
DAZAB	0.007%	0.000%	0.005%
DCB	0.000%	0.007%	0.003%
DCTNB	0.000%	0.008%	0.003%
Dimethyl -formamide	2.453%	9.868%	5.183%
DNBF	0.030%	0.000%	0.019%
Ethanol	67.032%	8.810%	45.595%
HACN	0.453%	0.002%	0.287%
НМХ			
510190	0.023%		0.074%
HNS 510285	0.507%	0.229%	0.405%
IPA	3.421%	7.299%	4.849%
KDNBF	0.176%	0.000%	0.111%
KP	0.017%	0.000%	0.011%
Methanol	2.713%	4.660%	3.430%
NaCe	0.140%	0.000%	0.089%
PETN 510193	0.023%	0.140%	0.066%
RDX 510015	0.023%	0.108%	0.054%
Tetrahydrofuran	2.941%	0.000%	1.858%
Totals	100%	100%	100%

### **Notes**

Shaded values are greater than 0.3% of total explosives

Table III-1.
Hazardous Waste Stored in Containers

Part A XIV Line No.	EPA Waste Code	Calif. Waste Code	Description of Waste and Physical State	Waste Source	Annual Quantity (lbs)	Storage Location Onsite treatment	Container Selection (Table IV-1)	Hazard Class
1	D001 D003 F003 U002	212 214 343	Acetone cont. various explosives (L)	Manufacturing of chemicals/ explosives	2600	TSU-3, Bay D TSU-2 TSU-1	Line 1	Reactive, Toxic, Ignitable
2	D001 D003 F003 F005 U003	212 343	Acetonitrile cont. various explosives (L)	Manufacturing of chemicals/ explosives	2000	TSU-3, Bay D TSU-2 TSU-1	Line 1	Reactive, Toxic, Ignitable
3	D001 F003 U031	212	N-butyl alcohol (L)	Chemical & Ordnance Mft.	2000	TSU-3, Bay D N/A	Line 2	Toxic, Ignitable, Irritant
4	D022 U044	211 741	Chloroform (L)	Chemical maunfacturing	5000	TSU-3, Bay B N/A	Line 3	Toxic
5	D001 U056	213	Cyclohexane (L)	Chemical & Ordnance Mft.	2000	TSU-3, Bay D N/A	Line 1	Toxic, Ignitable
6	D003	213	Dinitrotoluene (S)	Chemical & Ordnance Mft.	2000	Magazine storage under 90 days/TSU-3 after treatment TSU-1	Line 6	Reactive, Toxic, Ignitable
7	D001 D003 F003 U154	212 343	Methanol/ Methanol cont. various explosives (L)	Chemical & Ordnance Mft.	6300	TSU-3, Bay D TSU-2 TSU-1	Line 1	Reactive, Toxic, Ignitable
8	D035 F005 U159	212	Methyl ethyl ketone (L)	Chemical & Ordnance Mft.	2000	TSU-3, Bay D N/A	Line 1	Toxic, Ignitable
9	D003 U160	214	MEK peroxide (L)	Ordnance Manufacturing	400	Magazine storage under 90 days/TSU-3 after treatment TSU-1	Line 4	Reactive,
10	F003 U161	212	Methyl iso- butylketone (L)	Chemical & Ordnance Mft.	2000	TSU-3, Bay D N/A	Line 1	Toxic, Ignitable
11	D003 F001 U213	214	Tetrahydro- furan (L)	Chemical & Ordnance Mft.	3300	TSU-3, Bay D TSU-2	Line 1	Toxic, Ignitable, Irritant
12	D001 F005	213	Toluene (L)	Chemical & Ordnance Mft.	4000	TSU-3, Bay D N/A	Line 1	Toxic, Ignitable
13	D003 U234	213	1,3,5 Trinitro- benzene (S)	Ordnance Manufacturing	2000	Magazine storage under 90 days/TSU-3 after treatment TSU-1	Line 4	Reactive, Toxic

Table III-1.
Hazardous Waste Stored in Containers

Part A XIV Line No.	EPA Waste Code	Calif. Waste Code	Description of Waste and Physical State	Waste Source	Annual Quantity (lbs)	Storage Location Onsite treatment	Container Selection (Table IV-1)	Hazard Class
29	D001 D003 D005 D007 D008 F003	213 343	N-Butyl acetate (L)	Chemical & Ordnance Mft.	2000 -	TSU-3, Bay D TSU-2 TSU-1	Line 1	Reactive, Toxic, Ignitable
30	D001	213	Cycloheptane (L)	Chemical & Ordnance Mft.	5200	TSU-3, Bay D N/A	Line 1	Ignitable
31	D001 D003	213 214	Ethyl alcohol (L)	Chemical & Ordnance Mft.	5200	TSU-3, Bay D TSU-2	Line 3	Ignitable, Reactive
32	D001	213 221	Petroleum Hydrocarbon (L)	Chemical & Ordnance Mft.	5200	TSU-3, Bay D N/A	Line 10	Ignitable
33	Not listed	343	Polyoxyalkylene (L)	Air Compressor	5200	TSU-3, Bay D N/A	Line 10	Ignitable
34	D001 D035 F003 F005	212 213	Axarel, acetone (L)	Parts cleaning	5200	TSU-3, Bay D N/A	Line 1	Toxic, Ignitable
35	D001	213 343	Sedlsperse (L)	Parts cleaning	5200	TSU-3, Bay D N/A	Line 1	Ignitable
36	D001	213 343	Off spec. diesel (L)	Contaminated with water	5200	TSU-3, Bay D N/A	Line 1	Ignitable
37	D001 D008	213	Heptane/grease (L)	Tube cleaning	5200	TSU-3, Bay D N/A	Line 1	Ignitable
38	D001 D008	213 214	n-Heptane (L)	Chemical & Ordnance Mft.	6000	TSU-3, Bay D N/A	Line 10	Ignitable
39	D001 D003	213	Isopropanol (L)	Chemical & Ordnance Mft.	5200	TSU-3, Bay D TSU-2	Line 10	Ignitable, Reactive
40	D001	213	n-Propyl Alcohol (L)	Chemical & Ordnance Mft.	5200	TSU-3, Bay D N/A	Line 10	Ignitable
41	D001	213	Paint/varnish remover (L)	Chemical & Ordnance Mft.	5200	TSU-3, Bay D N/A	Line 10	Ignitable
42	D001 D006 D007 D008 D035 F003 F005	213 343 352 461	Paint/Thinners (L) (S)	Painting operations	5200	TSU-3, Bay D N/A	Line 11	lgnitable, Toxic

Table III-1.
Hazardous Waste Stored in Containers

Part A XIV	EPA Waste	Calif. Waste	Description of Waste and	Waste Source	Annual Quantity	Storage Location	Container Selection	Hazard Class
Line No.	Code	Code	Physical State		(lbs)	Onsite treatment	(Table IV-1)	
60	D002	122	Potassium	Chemical & Ordnance Mft.	50000	TSU-3, Bay A	Line 1	Corrosive
00			hydroxide (S)			N/A		
61	D002	122	Sodium hydroxide	Chemical & Ordnance Mft.	50000	TSU-3, Bay A	Line 20	Corrosive
V1			lye (S)			N/A		
62	D002	122	Potassium	Chemical & Ordnance Mft.	50000	TSU-3, Bay A	Line 1	Corrosive
Ü2			carbonate (S)			N/A		
63	D002	122	Sodium	Explosives & Ordnance mft.	50000	TSU-3, Bay A	Line 1	Corrosive
			carbonate (S)			N/A		
64	D002	791**	Sulfuric acid	Explosives & Ordnance mft.	50000	TSU-3, Bay C	Line 21	Corrosive
			(L)			N/A		
65	D002	791**	Acid and water	Explosives & Ordnance mft.	50000	TSU-3, Bay C	Line 21	Corrosive
			(L)		ļ	N/A		
66	D002	122	Alkaline/caustic	Explosives & Ordnance mft.	50000	TSU-3, Bay A	Line 22	Corrosive
		791**	(L) (S)			N/A		
	D002	122	Alkaline/	Off specification chemicals	50000	TSU-3, Bay A	Line 22	Corrosive
67		791**	caustic			N/A		
			(L) (S)					
68	D002	791**	Spent acid	Off specification chemicals	50000	TSU-3, Bay C	Line 22	Corrosive
			(L)			N/A		
69	D001	343	Spent acid	Metal etching	50000	TSU-3, Bay C	Line 22	Corrosive
	D007	792	(L)			N/A		
70	D002	792	Cont. mercury	Cleaning of equipment	500	TSU-3, Bay A	Line 22	Corrosive,
	D009	100	(L) (S)		50000	N/A	11	Toxic
71	D002	122	Spent caustic	Cleaning of equipment	50000	TSU-3, Bay A	Line 23	Corrosive
			(L) (S)	<u> </u>	5000	N/A		ļ
70	D000	0.50	Obsolete or	Explosives & Ordnance mft.	5000	Magazine storage under 90	1.	Reactive
72	D003	352	retrograde			days/TSU-3 after treatment TSU-1	Line 24	(Explosive)
			explosives (S)	 	5000			Destination
73	D003	352	Benzoyl	Explosives & Ordnance mft.	5000	Magazine storage under 90	Line 05	Reactive
73	D003	352	peroxide (S)			days/TSU-3 after treatment TSU-1	Line 25	(Explosive)
			Nitrocellulose/	Fundacius & Ondrasas of	5000			D#
74	D000	352		Explosives & Ordnance mft.	5000	Magazine storage under 90	1504	Reactive
/4	D003	352	guncotton (S)			days/TSU-3 after treatment	Line 24	(Explosive)
		352		Explosives & Ordnance mft.	5000	Magazine storage under 90		Reactive
75	D003	791**	Picric acid (L)	Explosives a Ordinance mit.	3000	days/TSU-3 after treatment	Line 26	
15	D003	191	Fight acid (L)			TSU-1	Line 26	(Explosive)
	D003	-	Retrograde/	Explosives & Ordnance mft.	5000	Magazine storage under 90		Reactive
76	D003	352	obsolete	Explosives α Ordinance mit.	3000	days/TSU-3 after treatment	Line 24	The second secon
70	D008	332	ordnance (S)			TSU-1	Line 24	(Explosive)
	ווטט	<u> </u>	ordinance (5)		<u> </u>	130-1		

Table III-1.

Hazardous Waste Stored in Containers

Part A XIV Line No.	EPA Waste Code	Calif. Waste Code	Description of Waste and Physical State	Waste Source	Annual Quantity (lbs)	Storage Location Onsite treatment	Container Selection (Table IV-1)	Hazard Class
94	D003	352	Cellulose cont. with various explosives (S)	Manufacture of ordnance	4000	Accumulation only TSU-1	N/A	Reactive
95	D003	343	Water contam. with explosives (L)	Manufacture of explosives manufacturing	5000	TSU-3, Bay D TSU-2	Line 1	Reactive
96	D003	343	And traces of pyridine, acetone, methanol, acetonitrile, and butyl acetate (L)	Manufacture of explosives	5000	TSU-3, Bay D TSU-2 TSU-1	Line 1	Reactive
97	D003	343	"Safety Bucket Water" water contaminated with explosives (L)	Manufacture of explosives	8000	TSU-3, Bay D TSU-8 TSU-1	Line 1	Reactive
98	D003	343	"Safety Bucket Water" (water contaminated with explosives) residue (S)	Treatment at TSU-8	800	TSU-3, Bay D TSU-1	Line 1	Reactive
99	D008 D011	172 181	Ash and residue from treatment at TSU-1 (S)	Treatment at TSU-1	2000	TSU-3, Bay A or B N/A	Line 1	Toxic
100	D003	172 181 213 214 343 352	Ash and residue from treatment at TSU-2 (L) & (S)	Treatment at TSU-2	500	TSU-3, Bay D TSU-1	Line 1	Reactive, Ignitable

Legend:

(L) Liquid

(S) Solid

\* Stored in magazines

\*\* CA Restricted Waste

Note 1:

Annual quantities are estimates of maximum annual quantity of a particular waste. Wastes generated in a particular year vary according to manufacturing contracts awarded to MSI, and cannot be predicted in advance. In a particular year, wastes generated would be several of the listed wastes, not all the wastes listed. Annual quantity of all wastes is significantly less than the sum of waste quantities in this Table.

Note 2:

Storage location includes identification of Bays 1 through 4 at TSU-3

Note 3:

N/A--Not applicable (no on-site treatment performed; shipped off-site for treatment and/or disposal).