



# **VOLUME 2 OF 3**

# **PERMIT RENEWAL APPLICATION**

## **OPERATION OF A HAZARDOUS WASTE TSDF**

*AT*  
7202 East 8<sup>th</sup> Avenue  
Tampa, FL 33619

**PERMIT APPLICATION NO.: 34875-013-HO**

***PREPARED FOR***  
US Ecology Tampa, Inc.  
7202 East 8<sup>th</sup> Avenue  
Tampa, FL 33619

***PREPARED BY***  
PACSCON GeoEnvironmental, Inc.  
2019 Osprey Lane, Suite C  
Lutz, FL 33549

Revision: 01  
April 6, 2019

**VOLUME 2 OF 3**

**Permit Renewal Application**

**FOR**

**Operation of a Hazardous Waste Treatment and  
Storage Facility**

**AT**

**7202 East 8<sup>th</sup> Avenue  
Tampa, FL 33619**

***Permit Application No.: 34875-013-HO***

*Prepared for:*



US Ecology Tampa, Inc.  
7202 East 8<sup>th</sup> Avenue  
Tampa, FL 33619



*Prepared by:*



PACSCON GeoEnvironmental, Inc.  
2019 Osprey Lane, Suite C  
Lutz, FL 33549

**Revision: 01  
April 6, 2019**

## **CONTENTS – VOLUME 2 OF 3**

<b><u>Appendix</u></b>	<b><u>Title / Contents</u></b>
Appendix A	Corporate Documentation
Appendix B	Summary of Permitted EPA Hazardous Waste Codes
Appendix C	Facility Permit List Summary
Appendix D	Facility & Hazardous Waste Management Building As-Built Drawings
Appendix E	SWFWMD Well Inventory
Appendix F	Financial Assurance Documentation
Appendix G	Solid Waste Management Units <ul style="list-style-type: none"><li>• SWMU Identification Summary</li><li>• EPA RCRA RFA Letter, dated January 30, 1990</li><li>• FDEP RCRA RFA Addendum, dated May 13, 2011</li><li>• Photos of Selected SWMUs</li></ul>
Appendix H	Facility Supplemental Emergency & Safety Equipment
Appendix I	Equipment Specifications <ul style="list-style-type: none"><li>• Drum Compactor</li><li>• Paint Can Crusher</li><li>• Floor Coatings</li><li>• Reactives Magazine</li><li>• Hazardous Waste Treatment Unit</li></ul>
Appendix J	Waste Analysis Plan Documentation & SOPs <ul style="list-style-type: none"><li>• Waste Profile Form</li><li>• LDR Notification Form</li><li>• Chain of Custody Form</li><li>• Waste Screening Flow Chart</li><li>• Container Contents Form</li><li>• Waste Receiving Report</li><li>• Facility Standard Operating Procedures</li></ul>
Appendix K	In-Bound Waste Shipment Records & Waste Characterization Reports
Appendix L	Proof of Publication of Notice
Appendix M	Facility Preparedness & Prevention Plan and Contingency/Emergency Response Plan

## **APPENDIX A**

### ***Corporate Documentation***





[Department of State](#) / [Division of Corporations](#) / [Search Records](#) / [Detail By Document Number](#) /

## Detail by Entity Name

Foreign Profit Corporation  
US ECOLOGY TAMPA, INC.

### Filing Information

<b>Document Number</b>	F03000006003
<b>FEI/EIN Number</b>	20-0414157
<b>Date Filed</b>	12/04/2003
<b>State</b>	MI
<b>Status</b>	ACTIVE
<b>Last Event</b>	NAME CHANGE AMENDMENT
<b>Event Date Filed</b>	07/11/2018
<b>Event Effective Date</b>	NONE

### Principal Address

101 S. Capitol Blvd  
Suite 1000  
Boise, ID 83702

Changed: 04/04/2018

### Mailing Address

101 S. Capitol Blvd  
Suite 1000  
Boise, ID 83702

Changed: 04/04/2018

### Registered Agent Name & Address

C T CORPORATION SYSTEM  
1200 SOUTH PINE ISLAND ROAD  
PLANTATION, FL 33324

### Officer/Director Detail

#### **Name & Address**

Title Secretary

Ipsen, Wayne  
101 S. Capitol Blvd  
Suite 1000  
Boise, ID 83702

Title Director, Treasurer

Gerratt, Eric L.  
101 S. Capitol Blvd  
Suite 1000  
Boise, ID 83702

Title Director

Bell, Simon G.  
101 S. Capitol Blvd  
Suite 1000  
Boise, ID 83702

Title Director, President

Feeler, Jeffrey R.  
101 S. Capitol Blvd  
Suite 1000  
Boise, ID 83702

#### Annual Reports

Report Year	Filed Date
2016	03/10/2016
2017	04/13/2017
2018	04/04/2018

#### Document Images

<a href="#">07/11/2018 -- Name Change</a>	<a href="#">View image in PDF format</a>
<a href="#">04/04/2018 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">04/13/2017 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">03/10/2016 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">02/24/2015 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">03/10/2014 -- Amendment</a>	<a href="#">View image in PDF format</a>
<a href="#">02/17/2014 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">03/25/2013 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">03/13/2012 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">03/17/2011 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">01/04/2010 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">03/30/2009 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">03/17/2008 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">08/03/2007 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">07/21/2006 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">04/21/2005 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">07/13/2004 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">12/04/2003 -- Foreign Profit</a>	<a href="#">View image in PDF format</a>

To: Page 2 of 5  
Division of Corporations

2018-07-19 17:32:19 EST

19642080345 From: Ranae McGraw

Florida Department of State  
Division of Corporations  
Electronic Filing Cover Sheet

**Note:** Please print this page and use it as a cover sheet. Type the fax audit number (shown below) on the top and bottom of all pages of the document.

((H180001998243)))



H180001998243ABC9

**Note:** DO NOT hit the REFRESH/RELOAD button on your browser from this page. Doing so will generate another cover sheet.

To:

Division of Corporations  
Fax Number : (850) 617-6380

Please honor original date

From:

Account Name : C T CORPORATION SYSTEM  
Account Number : FCA000000023  
Phone : (614) 280-3338  
Fax Number : (954) 208-0845

07/11/2018

**\*\*Enter the email address for this business entity to be used for future annual report mailings. Enter only one email address please.\*\***

Email Address: \_\_\_\_\_

**COR AMND/RESTATE/CORRECT OR O/D RESIGN  
EQ FLORIDA, INC.**

Certificate of Status	0
Certified Copy	1
Page Count	03
Estimated Charge	\$43.75

2018 JUL 11 AM 9:15  
SECRETARY OF STATE  
TALLAHASSEE, FLORIDA

FILED

Electronic Filing Menu

Corporate Filing Menu

Help

Please honor original date 07/11/2018

C. GOLDEN

JUL 23 2018

850-617-6381

7/11/2018 10:48:43 AM PAGE 1/001 Fax Server



July 11, 2018

FLORIDA DEPARTMENT OF STATE  
Division of Corporations

EQ FLORIDA, INC.  
36255 MICHIGAN AVENUE  
WAYNE, MI 48184US

SUBJECT: EQ FLORIDA, INC.  
REF: F03000006003

We received your electronically transmitted document. However, the document has not been filed. Please make the following corrections and refax the complete document, including the electronic filing cover sheet.

Please correct number 4 when the name change was made.

If you have any questions concerning the filing of your document, please call (850) 245-6050.

Claretha Golden  
Regulatory Specialist II

FAX Aud. #: H18000199824  
Letter Number: 618A00014255

RECEIVED  
18 JUL 20 AM 8:17  
SECRETARY OF STATE  
TALLAHASSEE, FLORIDA

**PROFIT CORPORATION**  
**APPLICATION BY FOREIGN PROFIT CORPORATION TO FILE AMENDMENT TO**  
**APPLICATION FOR AUTHORIZATION TO TRANSACT BUSINESS IN FLORIDA**  
(Pursuant to s. 607.1504, F.S.)

**SECTION I**  
**(1-3 MUST BE COMPLETED)**

FD3000006003

(Document number of corporation (if known))

**FILED**  
**2018 JUL 11 AM 9:15**  
**SECRETARY OF STATE**  
**TALLAHASSEE, FLORIDA**

1. EQ FLORIDA, INC.  
(Name of corporation as it appears on the records of the Department of State)
2. MICHIGAN  
(Incorporated under laws of)
3. 12/04/2003  
(Date authorized to do business in Florida)

**SECTION II**  
**(4-7 COMPLETE ONLY THE APPLICABLE CHANGES)**

4. If the amendment changes the name of the corporation, when was the change effected under the laws of its jurisdiction of incorporation? 6/15/2018
5. US ECOLOGY TAMPA, INC.  
(Name of corporation after the amendment, adding suffix "corporation," "company," or "incorporated," or appropriate abbreviation, if not contained in new name of the corporation)

(If new name is unavailable in Florida, enter alternate corporate name adopted for the purpose of transacting business in Florida)

6. If the amendment changes the period of duration, indicate new period of duration.

\_\_\_\_\_  
(New duration)

7. If the amendment changes the jurisdiction of incorporation, indicate new jurisdiction.

\_\_\_\_\_  
(New jurisdiction)

8. Attached is a certificate or document of similar import, evidencing the amendment, authenticated not more than 90 days prior to delivery of the application to the Department of State, by the Secretary of State or other official having custody of corporate records in the jurisdiction under the laws of which it is incorporated.

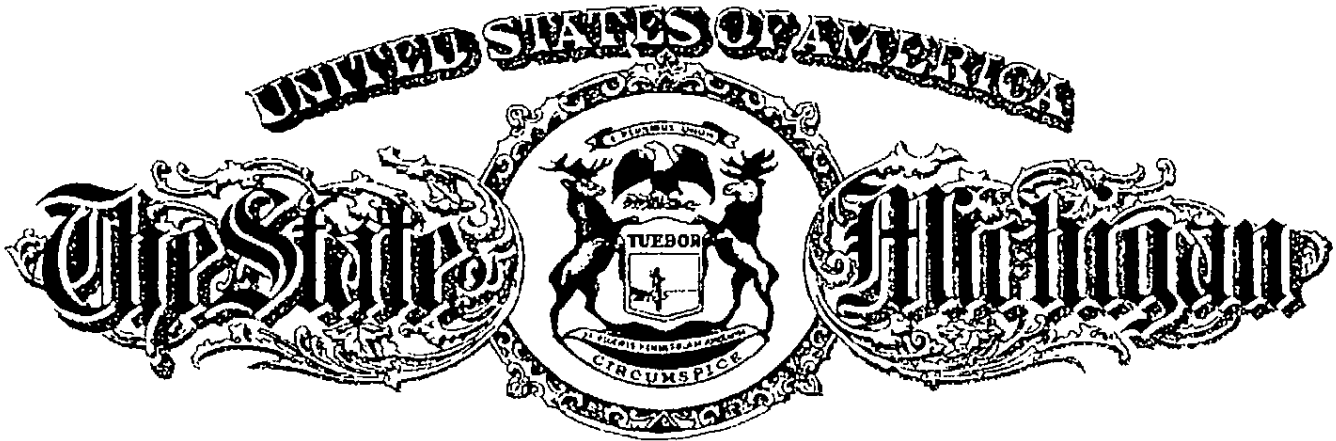
\_\_\_\_\_  
(Signature of a director, president or other officer - if in the hands of a receiver or other court-appointed fiduciary, by that fiduciary)

Wayne R. Ipsen

(Typed or printed name of person signing)

Secretary

(Title of person signing)



Department of Licensing and Regulatory Affairs  
Lansing, Michigan

This is to Certify That

**US ECOLOGY TAMPA, INC.**

*was validly incorporated as a Michigan profit corporation on November 25, 2003.*

*I FURTHER CERTIFY that a Certificate of Amendment to the Articles of Incorporation was filed on June 15, 2018, amending Article I, changing the corporate name from **EQ FLORIDA, INC.** to **US ECOLOGY TAMPA, INC.***

*This certificate is in due form, made by me as the proper officer, and is entitled to have full faith and credit given it in every court and office within the United States.*



*In testimony whereof, I have hereunto set my hand,  
in the City of Lansing, this 2nd day of July, 2018.*

Julia Dale, Director  
Corporations, Securities & Commercial Licensing Bureau

*Sent by electronic transmission*

Certificate Number: 17111194490

Verify this certificate at: [www.michigan.gov/corpverifycertificate](http://www.michigan.gov/corpverifycertificate)




THIS IS NOT A

Grantor hereby covenants with Grantee that Grantor is lawfully seized of said Property in fee simple; that Grantor has good right and lawful authority to sell and convey the Property; and Grantor hereby warrants the title to the Property and will defend the same against the lawful claims of all persons claiming by, through or under Grantor, but against no others.

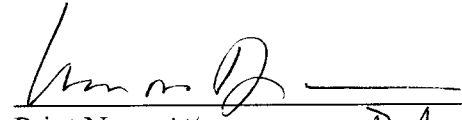
IN WITNESS WHEREOF, Grantor has executed and delivered this Special Warranty Deed as of the day and year first above written.

Signed, sealed and delivered  
in the presence of:


**US LIQUIDS OF FLORIDA, INC.,**  
a Florida corporation, formerly know as  
USL City Environmental Services of Florida, Inc.

  
Name: Gregory Fleck

By:

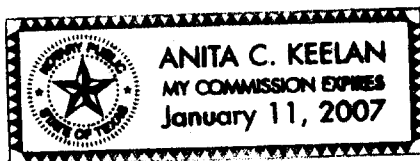
  
Print Name: WILLIAM M. DEARMAN

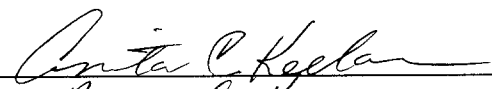
Title: PRESIDENT

  
Name: Kevin L. Fletcher

STATE OF TEXAS )  
 ) SS.  
COUNTY OF HARRIS )

The foregoing instrument was acknowledged before me this 30TH day of JANUARY, 2004, by WILLIAM M. DEARMAN, the PRESIDENT of US Liquids of Florida, Inc., a Florida corporation, formerly known as USL City Environmental Services of Florida, Inc., on behalf of said corporation.



Notary:   
Print Name: ANITA C. KEELAN  
Notary Public, State of TEXAS  
My Commission Expires: 1-11-2007



# THIS IS NOT A EXHIBIT A Legal Description CERTIFIED COPY

Land situated in Hillsborough County, Florida more particularly described as follows:

Parcel I:

Lots 8 through 14, inclusive, of Block 1 of ORIENT PARK, according to the map or plat thereof recorded in Plat Book 11, Page 7 of the Public Records of Hillsborough County, Florida, TOGETHER WITH the East 1/2 of vacated 72nd Street (62nd Street per plat), abutting said Lot 8 on the West, bounded on the South by Ninth Avenue and on the North by the South boundary of Lot 7 extended.

Parcel II:

Lots 1 through 10, inclusive, of Block 5 of ORIENT PARK, according to the map or plat thereof recorded in Plat Book 11, Page 7 of the Public Records of Hillsborough County, Florida, TOGETHER WITH the West 1/2 of vacated 72nd Street (62nd Street per plat), abutting said Lots 1 and 10 on the East, bounded on the North by Ninth Avenue and on the South by Eighth Avenue.

Parcel III:

Lots 5 and 6 in Block 5 of DRURY'S ADDITION TO ORIENT PARK, according to the map or plat thereof recorded in Plat Book 12, Page 63 of the Public Records of Hillsborough County, Florida.

Parcel IV:

Lots 7 and 8 of Block 6 of ORIENT PARK, according to the map or plat thereof recorded in Plat Book 11, Page 7 of the Public Records of Hillsborough County, Florida, TOGETHER WITH the East 1/2 of vacated 72nd Street (62nd Street per plat), abutting said Lots 7 and 8 on the West, bounded on the North by Ninth Street and on the South by Eighth Avenue.

Parcel V:

TOGETHER WITH a perpetual, non-exclusive easement as set forth in Easement Agreement by and between Armando O. Roche and Linda J. Roche, husband and wife, and Universal Transit Property Company, a Florida corporation, dated October 3, 1994, recorded October 4, 1994 in O.R. Book 7542, Page 868, Public Records of Hillsborough County, Florida, over property more particularly described as follows:

Lots 1 through 6, inclusive, and Lots 9 through 14, inclusive, of Block 6 of ORIENT PARK, according to the map or plat thereof recorded in Plat Book 11, Page 7 of the Public Records of Hillsborough County, Florida.

DET\_C\602204.1

## **APPENDIX B**

### ***Summary of Permitted EPA Hazardous Waste Codes***

**US Ecology Tampa, Inc.**  
**Summary of Characteristic and Listed Hazardous Wastes**

Process Code	Process Design Capacity and Units of Measure	Hazardous Waste Code(s)	Annual Quantity of Hazardous Waste (Gallons) <sup>2</sup>
S01	The permitted maximum capacity of 50,000 gallons is not exceeded at any time.	D001	1,267,993
S01		D002	1,065,555
S01		D003	97,978
S01		"D" Characteristic Wastes D004 - D043	991,067
S01		"F" Listed Wastes	609,875
S01		"P" Listed Wastes	26,640
S01		"K" Listed Wastes	8,000
S01		"U" Listed Wastes	80,211
TOTAL =			4,147,319

T21 <sup>1</sup>	"D" Characteristic Wastes to be treated will include only D002 and D004 through D011	1,010,590
T21 <sup>1</sup>	K062	2,000
<b>TOTAL =</b>		1,012,590

Notes:

1/ Chemical fixation/solidification/stabilization in the treatment tank.

2/ Based on volume of waste received during CY 2017.

**Total Existing & Proposed Hazardous Waste Storage Capacities**

**Existing**

Container Storage Building (CSB) Bay 1	20,000 Gallons <sup>3 4</sup>
Container Storage Building (CSB) Bay 2	10,000 Gallons <sup>3 4</sup>
Container Storage Building (CSB) Bay 3	20,000 Gallons <sup>3 4</sup>
Improved Secondary Containment Area (ISCA)	10,000 Gallons <sup>3</sup>
Inbound/Outbound Staging Area (I/O)	10,000 Gallons <sup>3</sup>
10-Day Transfer Area	20,000 Gallons or 100 Cubic Yards
Waste Processing Building (WPB)	4,400 gallons

**Proposed**

Waste Processing Building (WPB)	4,950 Gallons
---------------------------------	---------------

Notes:

3/ Provided the permitted maximum capacity of 50,000 gallons is not exceeded at any time.

4/ Each bay may contain hazardous wastes with any of the USE Tampa permitted waste codes. The hazardous waste is segregated into separate bays (and containment) by hazard class and compatibility, not by waste code.

# US Ecology Tampa, Inc.

## PERMITTED HAZARDOUS WASTE CODES

### CHARACTERISTIC WASTE

D001	D002	D003	D004	D005	D006	D007	D008	D009	D010	D011	D012	D013	D014	D015	D016	D017	D018
D019	D020	D021	D022	D023	D024	D025	D026	D027	D028	D029	D030	D031	D032	D033	D034	D035	D036
D037	D038	D039	D040	D041	D042	D043											

### HAZARDOUS WASTE FROM NON-SPECIFIC SOURCES

F001	F002	F003	F004	F005	F006	F007	F008	F009	F010	F011	F012	F019	F020	F021	F022	F023	F024
F025	F026	F027	F028	F032	F034	F035	F037	F038	F039								

### HAZARDOUS WASTE FROM SPECIFIC SOURCES

K001	K002	K003	K004	K005	K006	K007	K008	K009	K010	K011	K013	K014	K015	K016	K017	K018	K019
K020	K021	K022	K023	K024	K025	K026	K027	K028	K029	K030	K031	K032	K033	K034	K035	K036	K037
K038	K039	K040	K041	K042	K043	K044	K045	K046	K047	K048	K049	K050	K051	K052	K060	K061	K062
K069	K071	K073	K083	K084	K085	K086	K087	K088	K093	K094	K095	K096	K097	K098	K099	K100	K101
K102	K103	K104	K105	K106	K107	K108	K109	K110	K111	K112	K113	K114	K115	K116	K117	K118	K123
K124	K125	K126	K131	K132	K136	K141	K142	K143	K144	K145	K147	K148	K149	K150	K151	K161	

### DISCARDED COMMERCIAL CHEMICAL PRODUCTS, OFF-SPECIFICATION SPECIES, CONTAINER RESIDUES AND SPILL RESIDUES THEREOF

P001	P002	P003	P004	P005	P006	P007	P008	P009	P010	P011	P012	P013	P014	P015	P016	P017	P018
P020	P021	P022	P023	P024	P026	P027	P028	P029	P030	P031	P033	P034	P036	P037	P038	P039	P040
P041	P042	P043	P044	P045	P046	P047	P048	P049	P050	P051	P054	P056	P057	P058	P059	P060	P062
P063	P064	P065	P066	P067	P068	P069	P070	P071	P072	P073	P074	P075	P076	P077	P078	P081	P082
P084	P085	P087	P088	P089	P092	P093	P094	P095	P096	P097	P098	P099	P101	P102	P103	P104	P105
P106	P108	P109	P110	P111	P112	P113	P114	P115	P116	P118	P119	P120	P121	P122	P123	P127	P128
P185	P188	P189	P190	P191	P192	P194	P196	P197	P198	P199	P201	P202	P203	P204	P205		
U001	U002	U003	U004	U005	U006	U007	U008	U009	U010	U011	U012	U014	U015	U016	U017	U018	U019
U020	U021	U022	U023	U024	U025	U026	U027	U028	U029	U030	U031	U032	U033	U034	U035	U036	U037
U038	U039	U041	U042	U043	U044	U045	U046	U047	U048	U049	U050	U051	U052	U053	U055	U056	U057
U058	U059	U060	U061	U062	U063	U064	U066	U067	U068	U069	U070	U071	U072	U073	U074	U075	U076
U077	U078	U079	U080	U081	U082	U083	U084	U085	U086	U087	U088	U089	U090	U091	U092	U093	U094
U095	U096	U097	U098	U099	U101	U102	U103	U105	U106	U107	U108	U109	U110	U111	U112	U113	U114
U115	U116	U117	U118	U119	U120	U121	U122	U123	U124	U125	U126	U127	U128	U129	U130	U131	U132
U133	U134	U135	U136	U137	U138	U140	U141	U142	U143	U144	U145	U146	U147	U148	U149	U150	U151
U152	U153	U154	U155	U156	U157	U158	U159	U160	U161	U162	U163	U164	U165	U166	U167	U168	U169
U170	U171	U172	U173	U174	U176	U177	U178	U179	U180	U181	U182	U183	U184	U185	U186	U187	U188
U189	U190	U191	U192	U193	U194	U196	U197	U200	U201	U203	U204	U205	U206	U207	U208	U209	U210
U211	U213	U214	U215	U216	U217	U218	U219	U220	U221	U222	U223	U225	U226	U227	U228	U234	U235
U236	U237	U238	U239	U240	U243	U244	U246	U247	U248	U249	U271	U278	U279	U280	U328	U353	U359
U364	U367	U372	U373	U387	U389	U394	U395	U404	U409	U410	U411						

## **APPENDIX C**

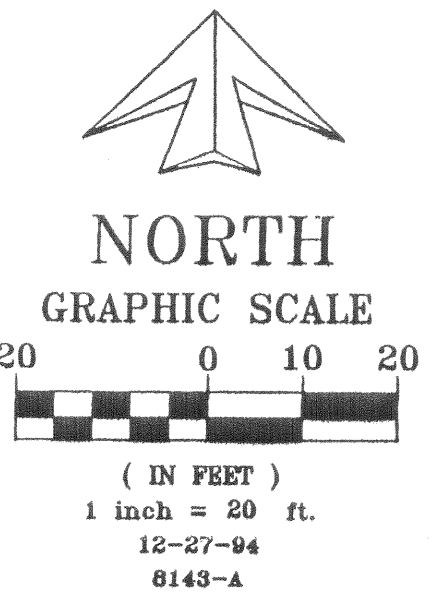
### ***Facility Permit List Summary***

**US Ecology Tampa, Inc.  
Environmental Permit List**

Permit	Permit #	Agency	Expiration Date
EPA ID #	FLD981932494	FDEP	N/A
EPA STORM WATER NOI MULTI-SECTOR	<a href="#">FLR05E179-004</a>	FDEP	8/19/2021
SOLID WASTE PERMIT	<a href="#">34757-SO-010</a>	FDEP	4/1/2019
MERCURY STORAGE & TRANSPORTER	FLD981932494	FDEP	3/1/2020
HAZARDOUS WASTE TRANSPORTER	<a href="#">FLD981932494</a>	FDEP	6/30/2020
TAMPA PORT AUTHORITY WASTE OIL	<a href="#">N/A</a>	TPA	9/30/2019
WASTE TIRE COLLECTOR	<a href="#">00044633</a>	FDEP	4/1/2019
USED OIL COLLECTION & TRANSPORTER	<a href="#">FLD981932494</a>	FDEP	6/30/2020
BROWARD CO. WASTE TRANSPORTER	<a href="#">WT-18-0021</a>	DNRP	4/30/2020
HAZARDOUS WASTE PERMIT (TSDF)	<a href="#">34875-HO-012</a>	FDEP	4/1/2019

## **APPENDIX D**

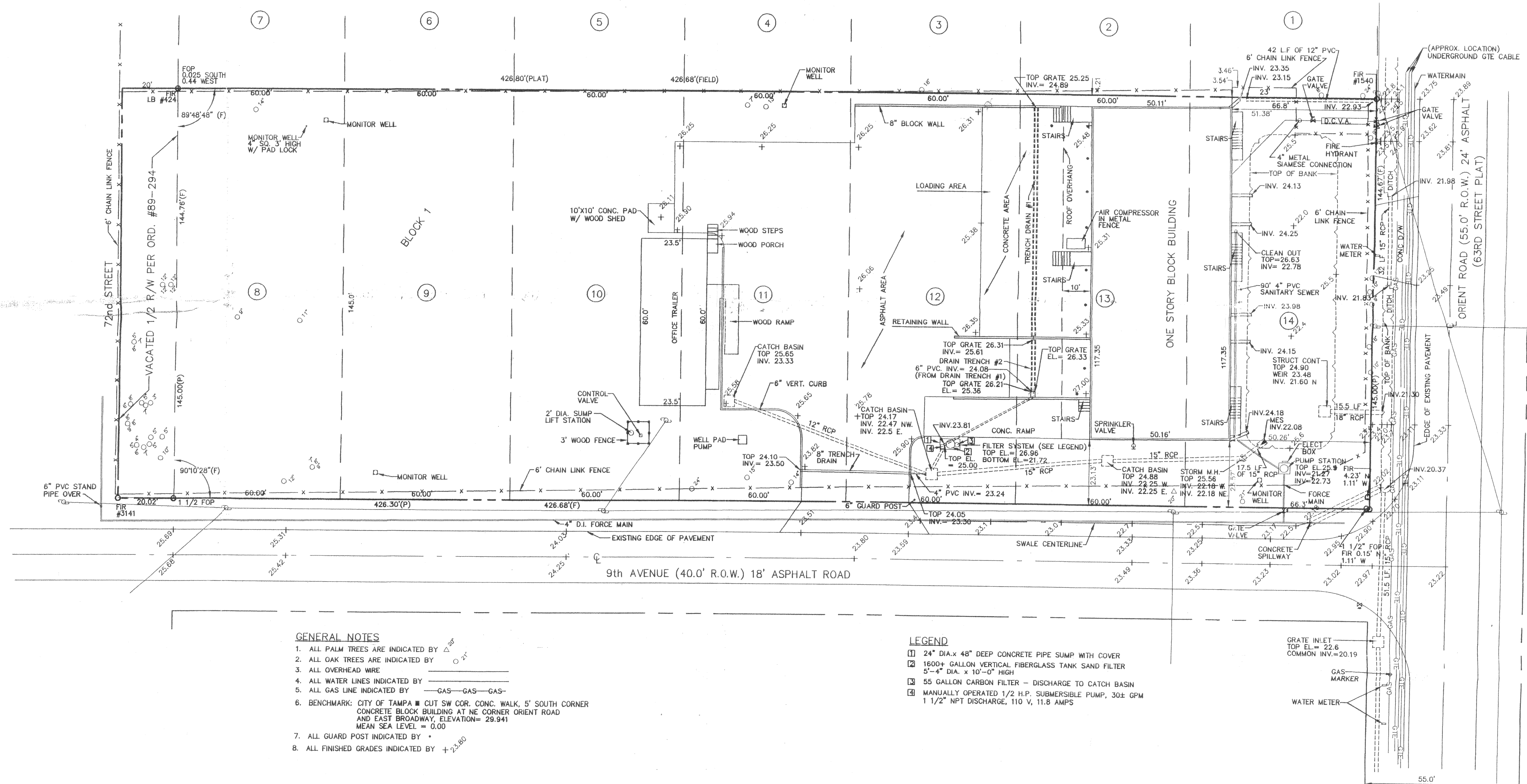
### ***Facility & Hazardous Waste Management Building As-Built Drawings***









## LEGAL DESCRIPTION

A SURVEY OF LOTS 8 THRU 14, INCLUSIVE, BLOCK1, ORIENT PARK, AS RECORDED IN PLAT BOOK 11, PAGE 7, PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA; TOGETHER WITH THE EAST 1/2 OF THAT PORTION OF 72ND STREET (62ND STREET PER PLAT) ABUTTING LOT8, BLOCK 1, AND LOT 2, BLOCK2, OF STATED ORIENT PARK.

DESCRIPTION: (WATER LINE EASEMENT)  
THE SOUTH 5.0 FEET OF LOTS 8 THRU 14, INCLUSIVE, BLOCK 1, ORIENT PARK, AS RECORDED IN PLAT BOOK 11, PAGE 7, PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA; TOGETHER WITH THE SOUTH 5.0 FEET OF THE EAST 1/2 OF THAT PORTION OF 72ND STREET (62ND STREET PER PLAT) ABUTTING LOT 8, BLOCK1, AND LOT 2, BLOCK 2, OF STATED ORIENT PARK.



GENERAL NOTES

1. ALL PALM TREES ARE INDICATED BY 
2. ALL OAK TREES ARE INDICATED BY 
3. ALL OVERHEAD WIRE 
4. ALL WATER LINES INDICATED BY 
5. ALL GAS LINE INDICATED BY 
6. BENCHMARK: CUT OF TAMPA ■ CUT SW COR. CONC. WALK, 5' SOUTH CORNER  
CONCRETE BLOCK BUILDING AT NE CORNER ORIENT ROAD  
AND EAST BROADWAY, ELEVATION = 29.941  
MEAN SEA LEVEL = 0.00
7. ALL GUARD POST INDICATED BY \*
8. ALL FINISHED GRADES INDICATED BY  + 23.80

LEGEND

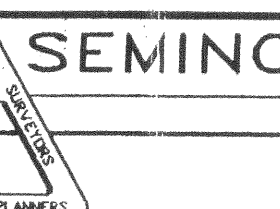
- ① 24" DIA.X 48" DEEP CONCRETE PIPE SUMP WITH COVER
- ② 1600+ GALLON VERTICAL FIBERGLASS TANK SAND FILTER  
5'-4" DIA. X 10'-0" HIGH
- ③ 55 GALLON CARBON FILTER - DISCHARGE TO CATCH BASIN
- ④ MANUALLY OPERATED 1/2 H.P. SUBMERSIBLE PUMP, 30± GPM  
1 1/2" NPT DISCHARGE, 110 V, 11.8 AMPS

CITY ENVIRONMENTAL  
SERVICES OF FLORIDA, INC.

7202 EAST EIGHTH AVENUE  
TAMPA, FLORIDA 33619



**KBN ENGINEERING AND APPLIED SCIENCES, INC.**  
5405 W. Cypress St., Suite 215 Telephone: (813) 287-1717  
Tampa, Florida 33607 FAX: (813) 287-1716



SEMINOLE ENGINEERING, INC.

14483 62nd STREET NORTH  
CLEARWATER, FL. 34620  
TELEPHONE (813) 539-0051

RECORD DRAWING - 11/22/94

James M. Winter, P.E. # 18313  
DATE: 12/27/94

DWG. FILE No.

8143-A	8143
--------	------

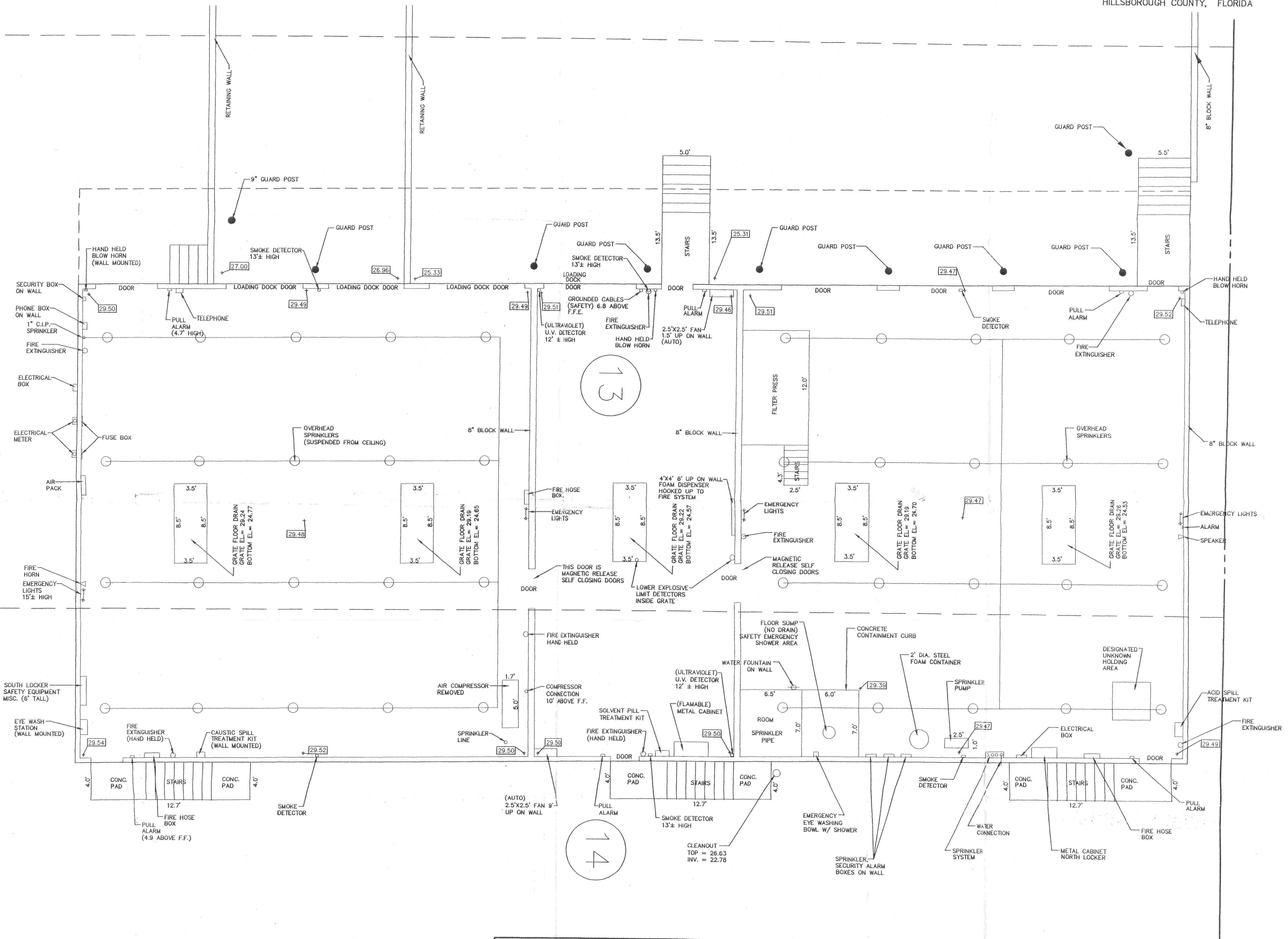
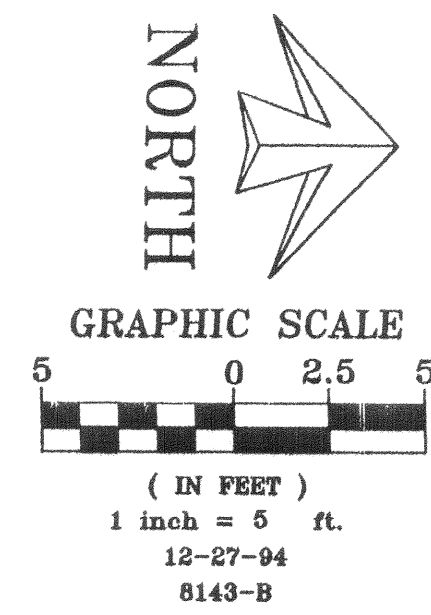
FIELD BOOK No.	ENG. SHEET No.
----------------	----------------

OF 2

DATE	No.	REVISIONS	BY	<input type="checkbox"/> PRELIMINARY	CUSTOMER	DATE
12/21/94		KBN ENGINEERING AND APPLIED SCIENCES, INC.; BY WLR	SR	<input type="checkbox"/> CONSTRUCTION	UNIVERSAL WASTE & TRANSIT, INC.	12-12-94
12/12/94		JOB NO. 8143; DRAWN BY JES	JHM	<input checked="" type="checkbox"/> RECORD DRAWING		DRAWN BY JES
4/12/89		JOB NO. 8143; SEMINOLE ENGINEERING; BY CN	EWR		SCALE 1" = 20'	CHECKED BY JHM

EXISTING LOT PLAN





CITY ENVIRONMENTAL  
SERVICES OF FLORIDA, INC. 7202 EAST EIGHTH AVENUE  
TAMPA, FLORIDA 33619

**KBN** KBN ENGINEERING AND APPLIED SCIENCES, INC.  
5405 W. Cypress St., Suite 215 Telephone: (813) 287-1717  
Tampa, Florida 33607 Fax: (813) 287-1716

**SEMINOLE ENGINEERING, INC.**  
14483 62nd STREET NORTH  
CLEARWATER, FL. 34620  
TELEPHONE (813) 539-0051

RECORD DRAWING - 11/22/94

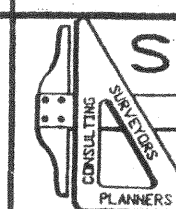
*James M. Winter*  
JAMES M. WINTER, P.E., # 18313  
DATE: 12/27/94

DWG. FILE No.  
8143-B PROJECT No.  
8143  
FIELD BOOK No. ENG. SHEET No.  
2 OF 2

DATE	No.	REVISIONS	BY

<input type="checkbox"/> PRELIMINARY	CLIENT UNIVERSAL WASTE & TRANSIT, INC.	DATE 12-12-94
<input type="checkbox"/> CONSTRUCTION		DRAWN BY JES
<input checked="" type="checkbox"/> RECORD DRAWING	SCALE 1" = 5'	CHECKED BY JMH

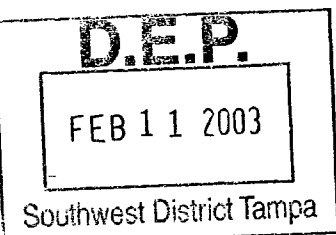
EXISTING BUILDING PLAN



# CITY ENVIRONMENTAL, SERVICE, INC. OF FLORIDA

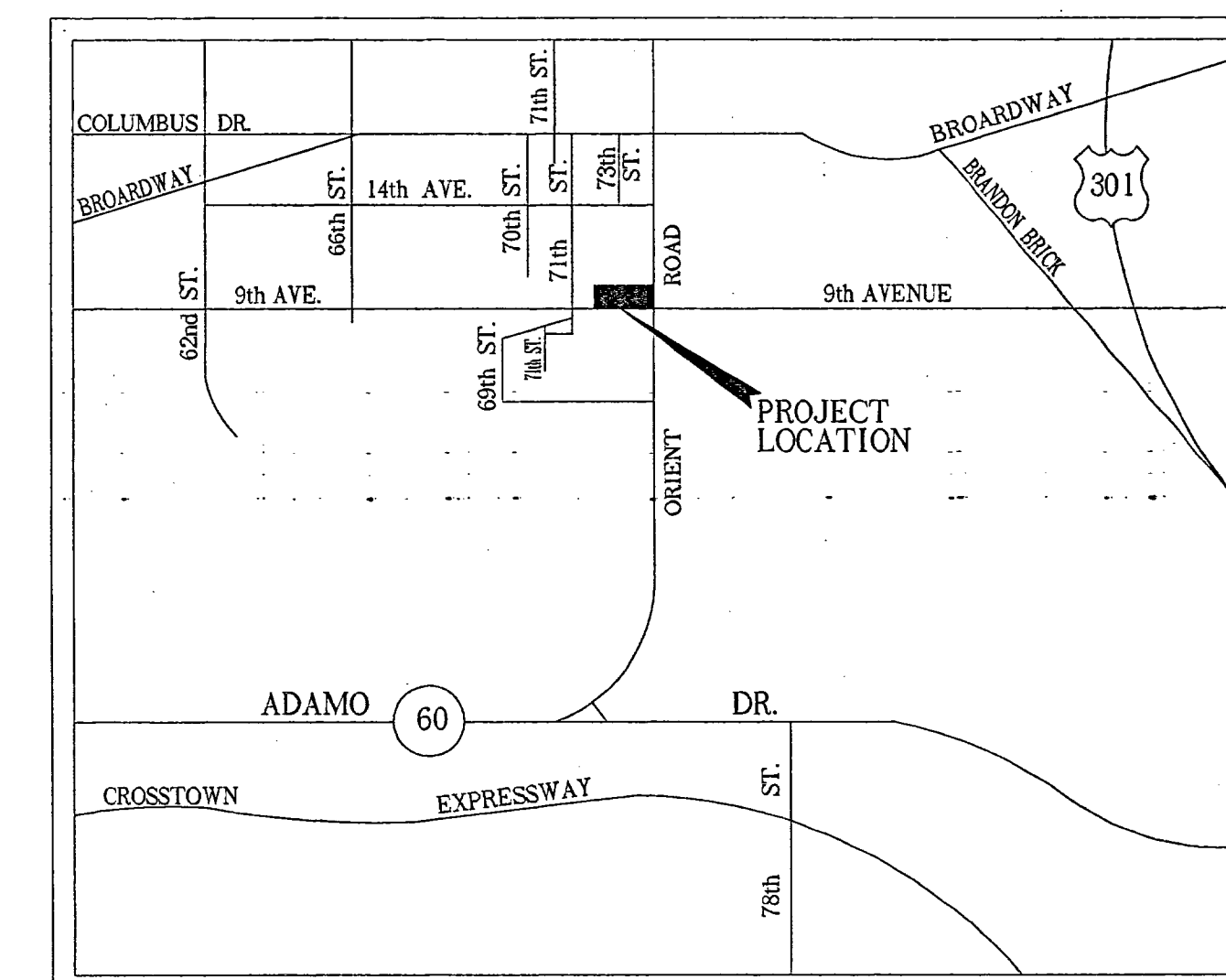
7202 EAST EIGHT AVENUE

TAMPA, FLORIDA, 33619



RECEIVED  
RCRA  
FEB 13 2003  
Hazardous Waste Regulation

DRAWING INDEX		
SHEET	DESCRIPTION	PAGE
SP-1	EXISTING SITE PLAN	1 OF 11
SP-1.1	EXISTING ADJACENT SITE PLAN	1.1 OF 11
SP-2	PROPOSED SITE PLAN	2 OF 11
A-1	EXISTING LOADING DOCK FLOOR PLAN	3 OF 11
A-2	DEMOLITION PLAN	4 OF 11
A-3	PROPOSED CONTAMINANT AREA & LOADING DOCK FLOOR PLAN	5 OF 11
A-4	EAST & WEST ELEVATION PLAN	6 OF 11
A-5	NORTH & SOUTH ELEVATION PLAN	7 OF 11
A-6	ROOF & CROSS SECTION PLAN	8 OF 11
S-1	CONTAMINANT AREA FOUNDATION PLAN	9 OF 11
S-2	FOUNDATION DETAILS	10 OF 11

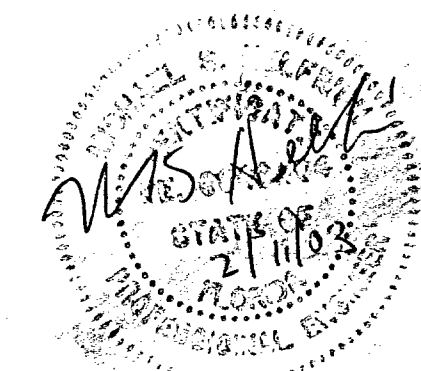


KEY MAP  
N.T.S.



#### CHANGES FOR AS-BUILD

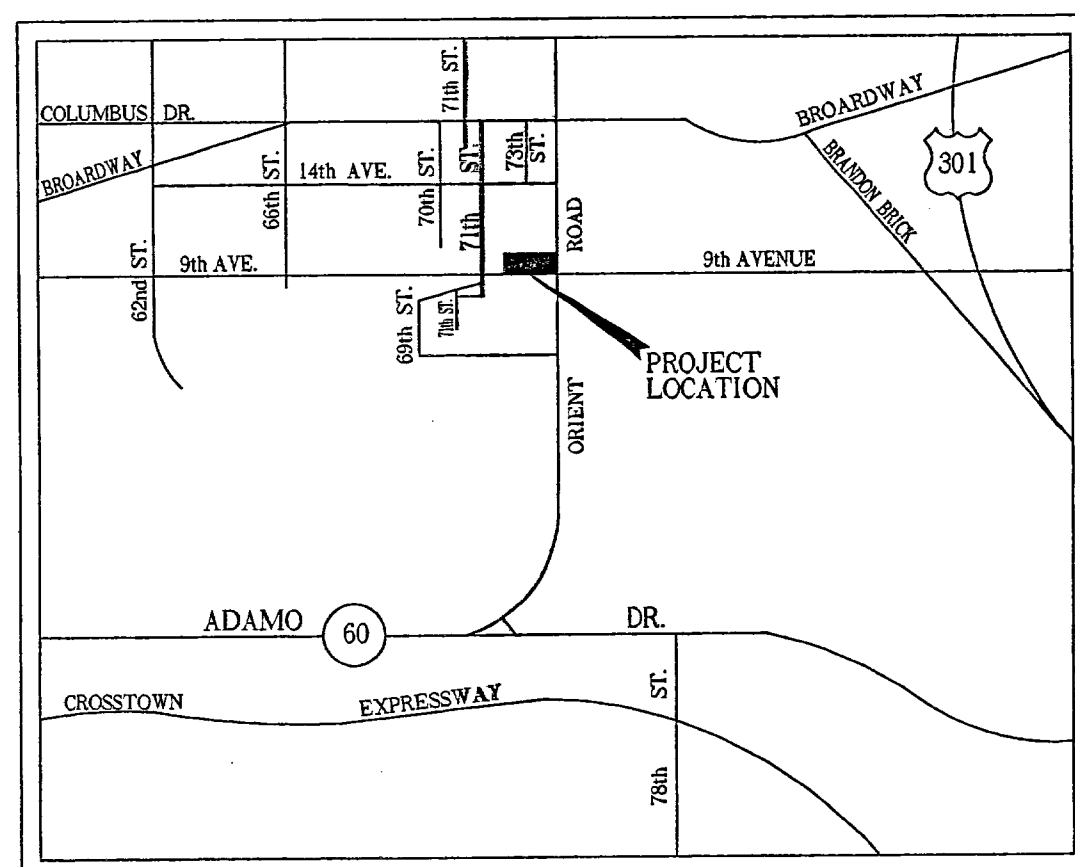
- ① SP-2 CHANGE TOP OF WALL ELEVATION TO 26.08
- ② A-1 CHANGE TOP OF GRATE ELEVATION TO 26.33  
CHANGE INV. TO 25.36
- ③ A-3 CHANGE TOP OF WALL ELEVATION TO 26.08  
MOVE VALVE & NOTE LOCATION AS SHOWN
- ④ A-6 ADD DETAIL 7/S-2
- ⑤ S-2 CHANGE TOP OF WALL ELEVATION TO 26.08  
CHANGE WALL HEIGHTS AS SHOWN  
CHANGE COATING NOTE AS SHOWN



DATE	REVISION	BY	© 2001 CITY ENVIRONMENTAL, SERVICE, INC. OF FLORIDA 7202 EAST EIGHT AVENUE TAMPA, FLORIDA, 33619		DATE	12/5/01
1/24/03	1	AS-BUILD NOTE	RD		DRAWN BY	RD
	2				FILE #	1727
	3				PAGE NO	
	4				SHEET NO.	COVER
	5					

GENERAL CONTRACTORS  
10525 49th ST. NO.  
CLEARWATER FL 34622  
PH 573-2505, FAX 572-8077

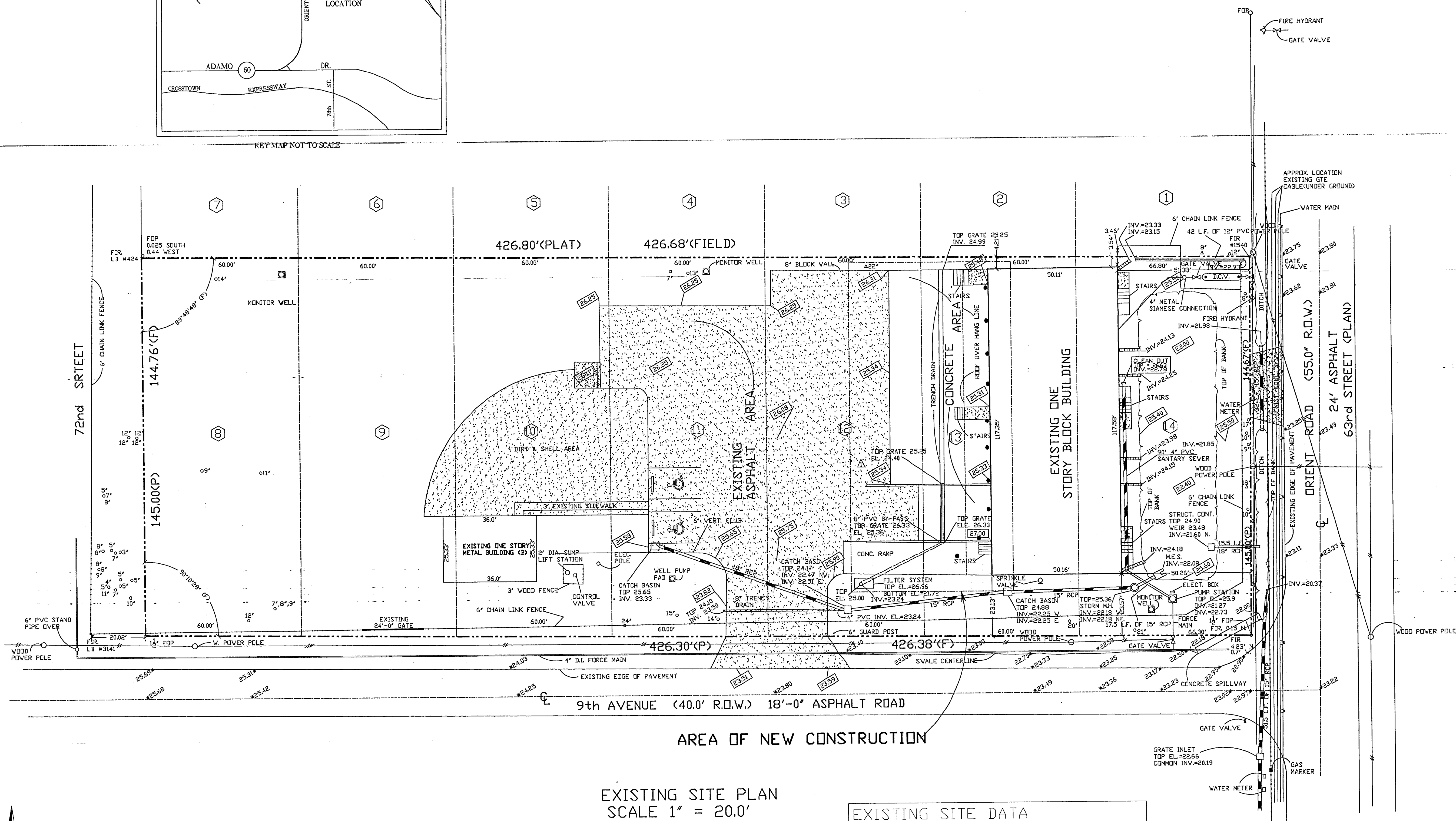




KEY MAP NOT TO SCALE

## LEGAL DESCRIPTION:

A SURVEY OF LOTS 8,9,10,11,12,13, AND 14, BLOCK 1, OF ORIENT PARK SUBDIVISION, ACCORDING TO THE MAP OR PLAT THEREOF AS RECORDED IN PLAT BOOK 11, PAGE 7, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA.



AREA OF NEW CONSTRUCTION

EXISTING SITE PLAN  
SCALE 1" = 20.0'

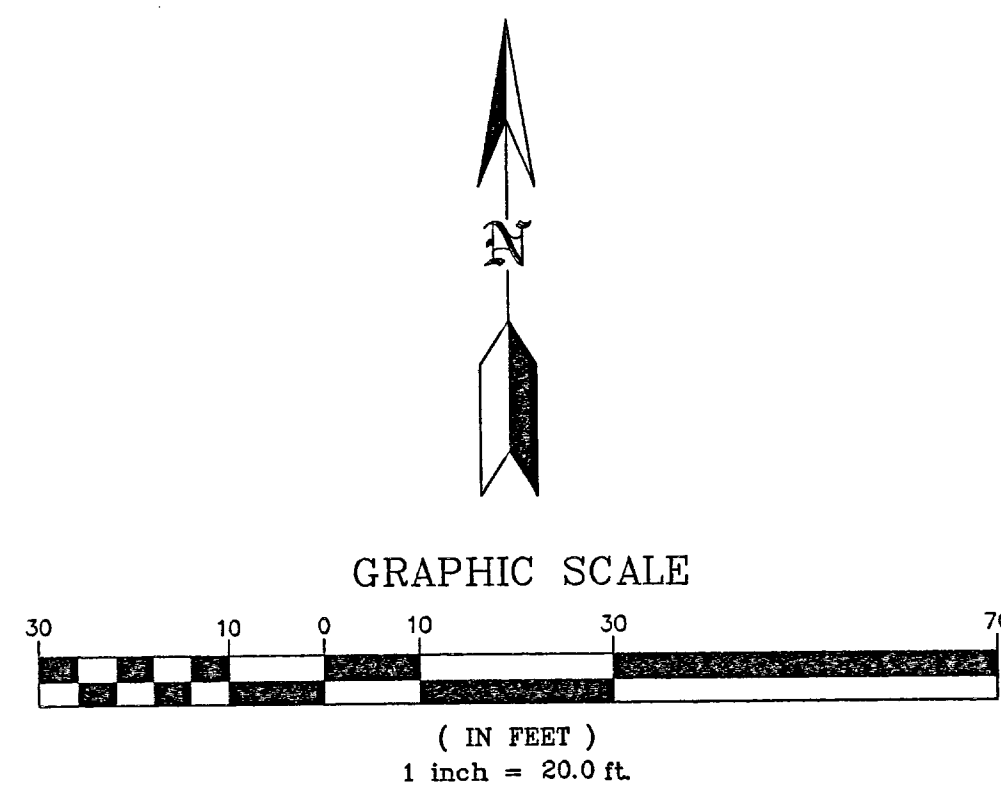
## EXISTING SITE DATA

EXISTING BUILDING	6,798.0 SQ. FT. = 11 %
EXISTING ASPHALT	11,498.0 SQ. FT. = 19 %
EXISTING CONCRETE	4,829.0 SQ. FT. = 8 %
GREEN AREA	35,131.0 SQ. FT. = 56 %
DIRT & SHELL AREA	3,882.0 SQ. FT. = 6 %
<b>TOTAL SITE</b>	<b>62,138.0 SQ. FT. = 100 %</b>

## GENERAL NOTE:

- 1)- ALL PALM TREE INDICATED BY:  $\Delta$  12"
- 2)- ALL OAK TREE INDICATED BY:  $\circ$  14"
- 3)- ALL OVERHEAD WIRE INDICATED BY:  $---$
- 4)- ALL WATER LINE INDICATED BY:  $---$
- 5)- ALL GAS LINE INDICATED BY:  $---$
- 6)- BENCH MARK: CITY OF TAMPA @ CUT SW. COR. CONC. WALK, 5' SOUTH CORNER CONCRETE BLOCK BUILDING AT NE. CORNER ORIENT ROAD AND EAST BROADWAY, ELEVATION = 28.94; MEAN SEA LEVEL = 0.00
- 7)- ALL GUARD POST INDICATED BY:  $\bullet$
- 8)- ALL FINISH GRADES INDICATED BY:  $\square$  25.00

INFORMATION WAS UTILIZED IN THE PREPARATION OF THIS SITE PLAN WAS TAKEN FROM A SURVEY PREPARED BY EARL W. RAMER FLORIDA REG. LAND SURVEYOR NO.3618. AND I HEREBY GIVE CREDIT.



**D.E.P.**  
FEB 11 2003  
Southwest District Tampa

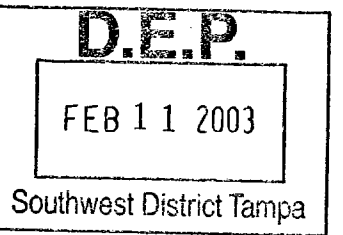
**RECEIVED**  
RCRA  
FEB 13 2003  
Hazardous Waste Regulation

DATE	REVISION	BY	SCALE 1" = 20.0'	© 2001
1			CITY ENVIRONMENTAL, SERVICE, INC. OF FLORIDA	
2			7202 EAST EIGHT AVENUE	
3			TAMPA, FLORIDA, 33619	
4				
5				

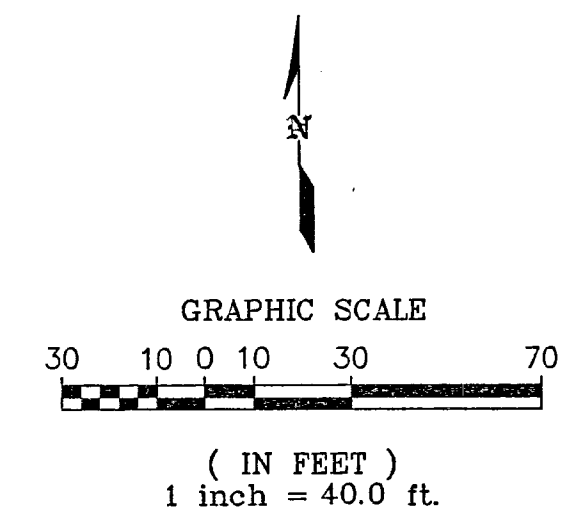
**P.J. CALLAGHAN**  
GENERAL CONTRACTORS  
LICENSE NO. CC0008102  
10525 49th ST. NO  
CLEARWATER FL 33762  
PH 573-2506 FAX 572-8077

DATE 12/5/01  
DRAWN BY RD  
FILE # 1727  
PAGE NO 1 OF 11  
SHEET NO SP-1


	NORTH	SOUTH	TOTAL
STANDARD:	0	23	23
HANDICAP:	2	1	3
TOTAL:	2	24	26



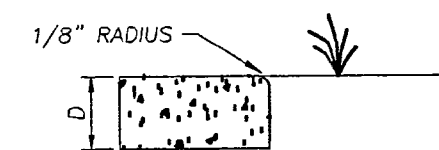
RECEIVED  
RCRA  
FEB 13 2003  
Hazardous Waste Regulation



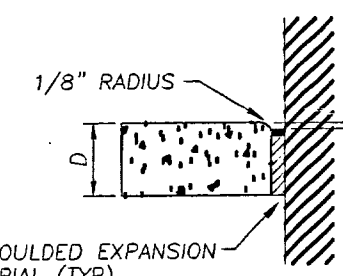
EXISTING ADJACENT SITE PLAN  
SCALE 1" = 40.0'

DATE	REVISION	BY	SCALE 1" = 40.0'	© 2001		DATE	3/12/02
1			CITY ENVIRONMENTAL, SERVICE, INC. OF FLORIDA			DRAWN BY	RD
2			7202 EAST EIGHT AVENUE			FILE #	1727
3			TAMPA, FLORIDA, 33619			PAGE NO.	1.1 OF 11
4						SHEET NO.	SP-1.1
5							

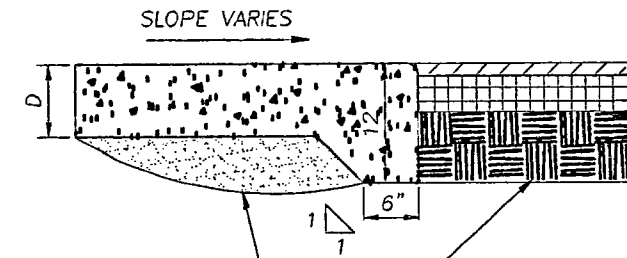




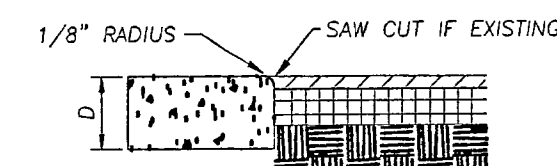
CONCRETE/GRASS SECTION



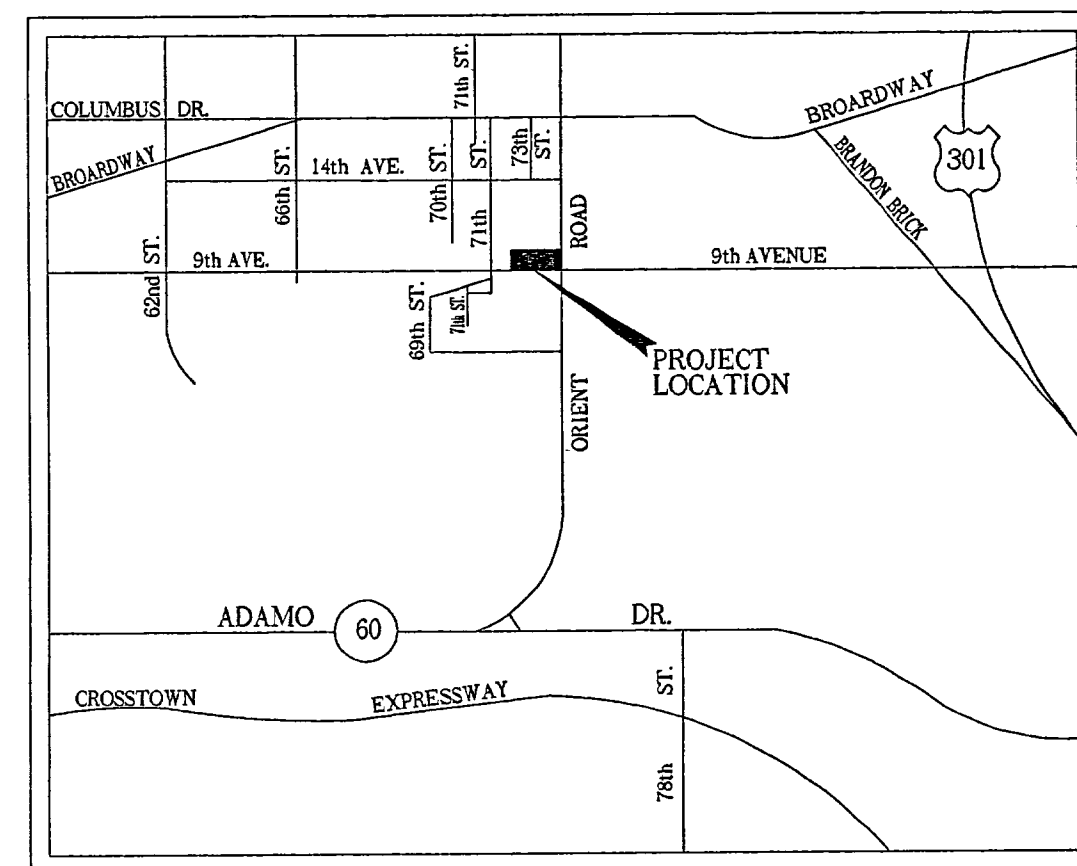
BUILDING/CONCRETE JOINT



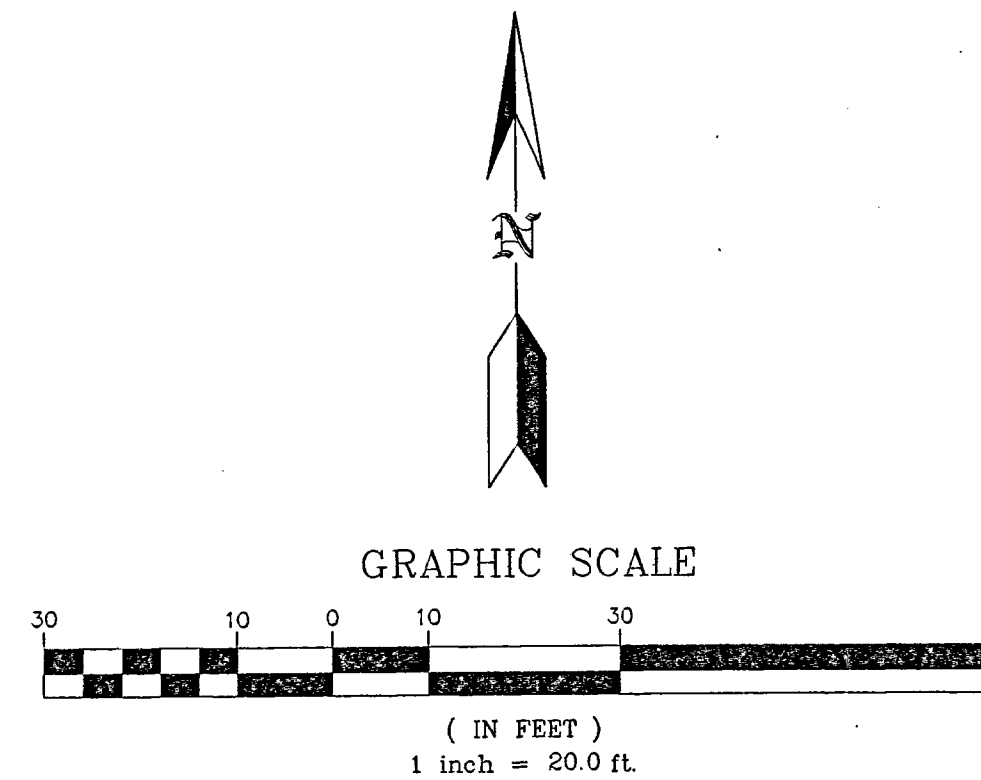
CONCRETE APRON EDGE SECTION



CONCRETE/ASPHALT SECTION

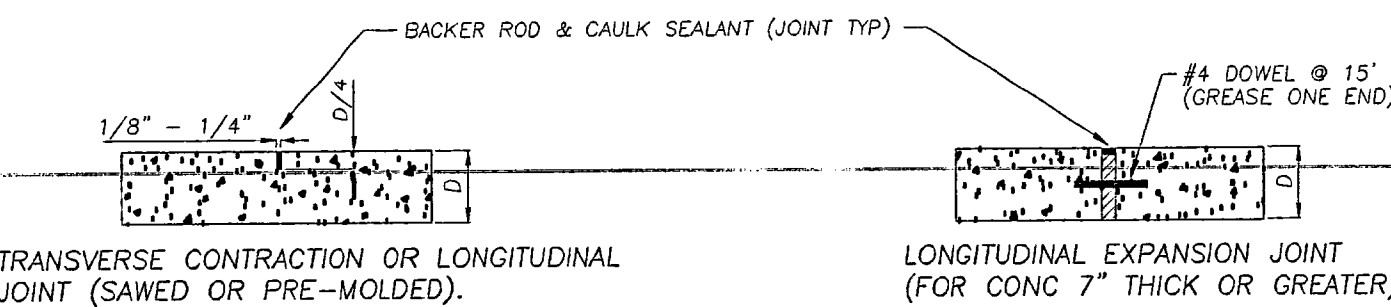


KEY MAP NOT TO SCALE

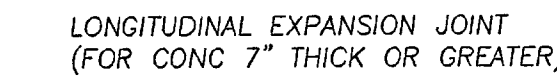


MATERIALS STORED IN EXISTING BUILDING  
CLASS 1, EXPLOSIVES (NOT ALLOWED)  
CLASS 2, FLAMMABLE/POISON/NON-FLAMMABLE GASES  
CLASS 3, FLAMMABLE/COMBUSTIBLE/FLU. OIL LIQUIDS  
CLASS 4, FLAMMABLE/SPONTANEOUSLY COMBUSTIBLE  
DANGEROUS WHEN WET SOLIDS  
CLASS 5, OXIDIZER/ORGANIC PEROXIDE LIQUIDS AND SOLIDS  
CLASS 6, POISON/TOXIC LIQUIDS AND SOLIDS  
CLASS 7, BIOLOGICAL (NOT ALLOWED)  
CLASS 8, RADIOLOGICAL (NOT ALLOWED)  
CLASS 9, CORROSIVE LIQUID AND SOLIDS  
CLASS 9, MISCELLANEOUS MATERIALS

H2 TYPE 4 CONSTRUCTION SPRINKLED  
TABLE 500 MAX. ALLOWABLE  
SQUARE FOOTAGE 5,000 SQ. FT.  
1 1/2 HOUR EXISTING FIRE SEPARATION  
ADJACENT TO PROPOSED BUILDING  
OF 4,694 SQ. FT.



TRANSVERSE CONTRACTION OR LONGITUDINAL JOINT (SAWED OR PRE-MOLDED).



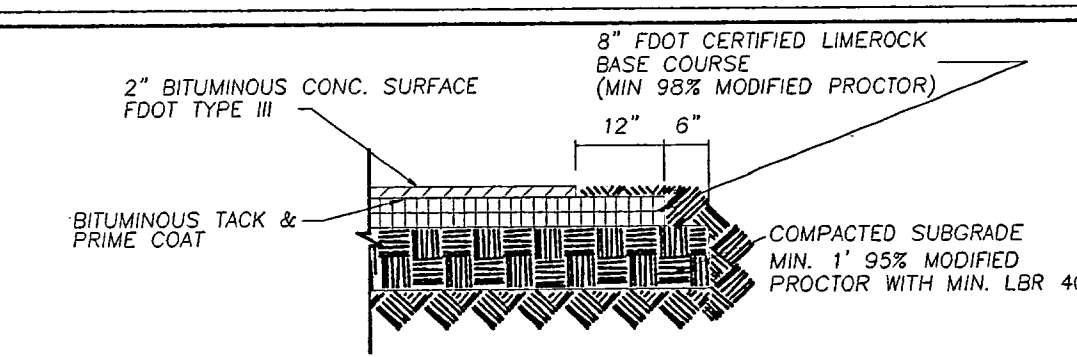
LONGITUDINAL EXPANSION JOINT (FOR CONC 7" THICK OR GREATER)

ALL CONCRETE PAVEMENT ON-SITE IS TO BE FIBERMESH REINFORCED. 8" THICK CONCRETE IN TRUCK TRAFFIC AREAS. MATERIAL AND CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH RECOMMENDED SPECIFICATIONS FOR NON-REINFORCED PORTLAND CEMENT CONCRETE PAVING BY THE PORTLAND CEMENT ASSOCIATION. JOINTS TO BE SPACED AT 18 FEET FOR 8 INCH THICK CONCRETE. JOINTS TO BE CONSTRUCTED AS SHOWN ABOVE.

NO STEEL REINFORCEMENT IS REQUIRED FOR PAVEMENT AREAS  
PROVIDE FIBER REINFORCEMENT AT 3.0 LBS PER CUBIC YARD

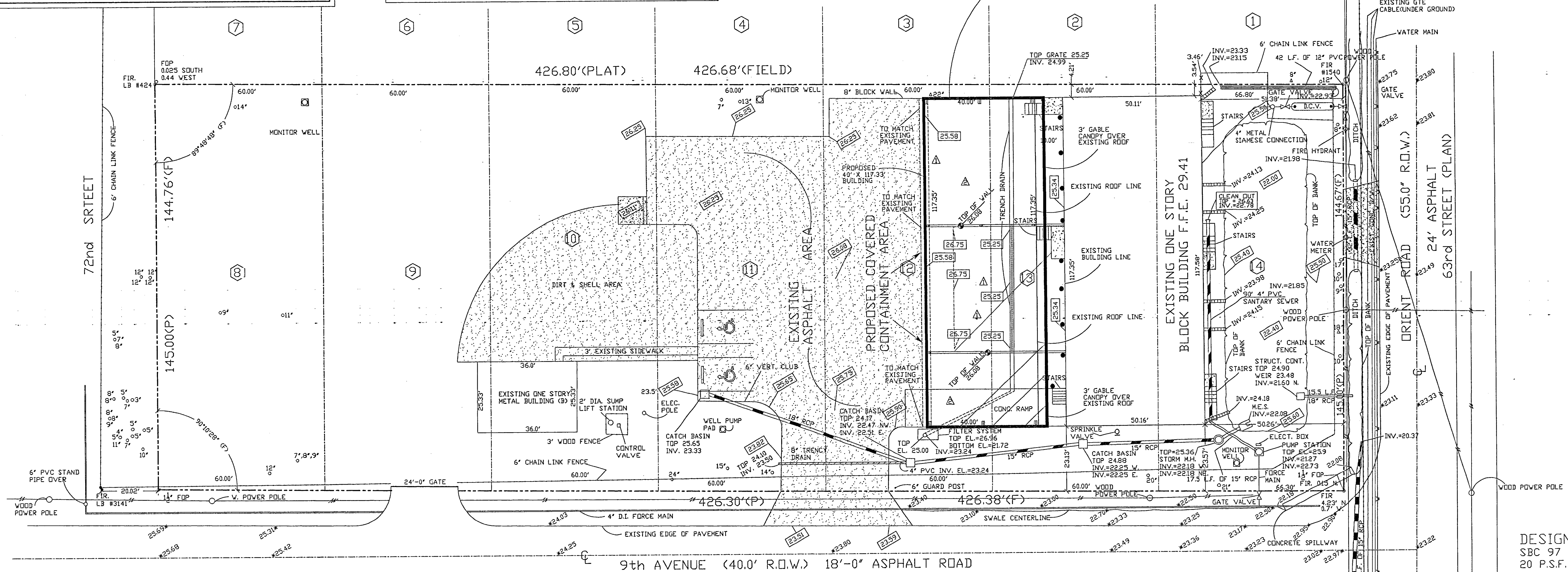
### CONCRETE PAVEMENT DETAILS

N.T.S.



### TYP. ASPHALT PAVING SECTION

TRUCK USE AREA  
CONSTRUCTED AS PER FOOT SPECIFICATIONS  
N.T.S.



### PROPOSED SITE PLAN COVERED CONTAINMENT AREA SCALE 1" = 20.0'

#### PROPOSED SITE DATA

EXISTING BUILDING	6,798.0 SQ. FT. = 11 %
EXISTING ASPHALT	9,950.0 SQ. FT. = 16 %
EXISTING CONCRETE	4,005.0 SQ. FT. = 7 %
PROPOSED CONCRETE	2,372.0 SQ. FT. = 4 %
GREEN AREA	35,131.0 SQ. FT. = 56 %
DIRT & SHELL AREA	3,882.0 SQ. FT. = 6 %
TOTAL SITE	62,138.0 SQ. FT. = 100 %

#### GENERAL NOTE:

- 1)- ALL PALM TREE INDICATED BY:  $\Delta$  12"
- 2)- ALL OAK TREE INDICATED BY:  $\Delta$  14"
- 3)- ALL OVERHEAD WIRE INDICATED BY:  $\text{---}$
- 4)- ALL WATER LINE INDICATED BY:  $\text{---}$
- 5)- ALL GAS LINE INDICATED BY:  $\text{---}$
- 6)- BENCH MARK: CITY OF TAMPA @ CUT SW. COR. CONC. WALK, 5' SOUTH CORNER CONCRETE BLOCK BUILDING AT NE. CORNER ORIENT ROAD AND EAST BROADWAY, ELEVATION = 28.94; MEAN SEA LEVEL = 0.00
- 7)- ALL GUARD POST INDICATED BY:  $\bullet$
- 8)- EXISTING GRADES INDICATED BY:  $\text{---}$
- 9)- PROPOSED GRADES INDICATED BY:  $\text{---}$

#### LEGAL DESCRIPTION:

A SURVEY OF LOTS 8,9,10,11,12,13, AND 14, BLOCK 1, OF ORIENT PARK SUBDIVISION ACCORDING TO THE MAP OR PLAT THEREOF AS RECORDED IN PLAT BOOK 11, PAGE 7, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA.

SECTION 14, TOWNSHIP 29 SOUTH, RANGE 19 EAST

INFORMATION WAS UTILIZED IN THE PREPARATION OF THIS SITE PLAN WAS TAKEN FROM A SURVEY PREPARED BY EARL W. RAMER FLORIDA REG. LAND SURVEYOR NO.3618, AND I HEREBY GIVE CREDIT.

D.E.P.

FEB 11 2003

Southwest District Tampa

RECEIVED

RCRA

FEB 13 2003

Hazardous Waste Regulation

DESIGN INFORMATION:  
SBC 97  
20 P.S.F. LIVE LOAD  
100 MPH WIND LOAD  
OCCUPANCY: GROUP H-2

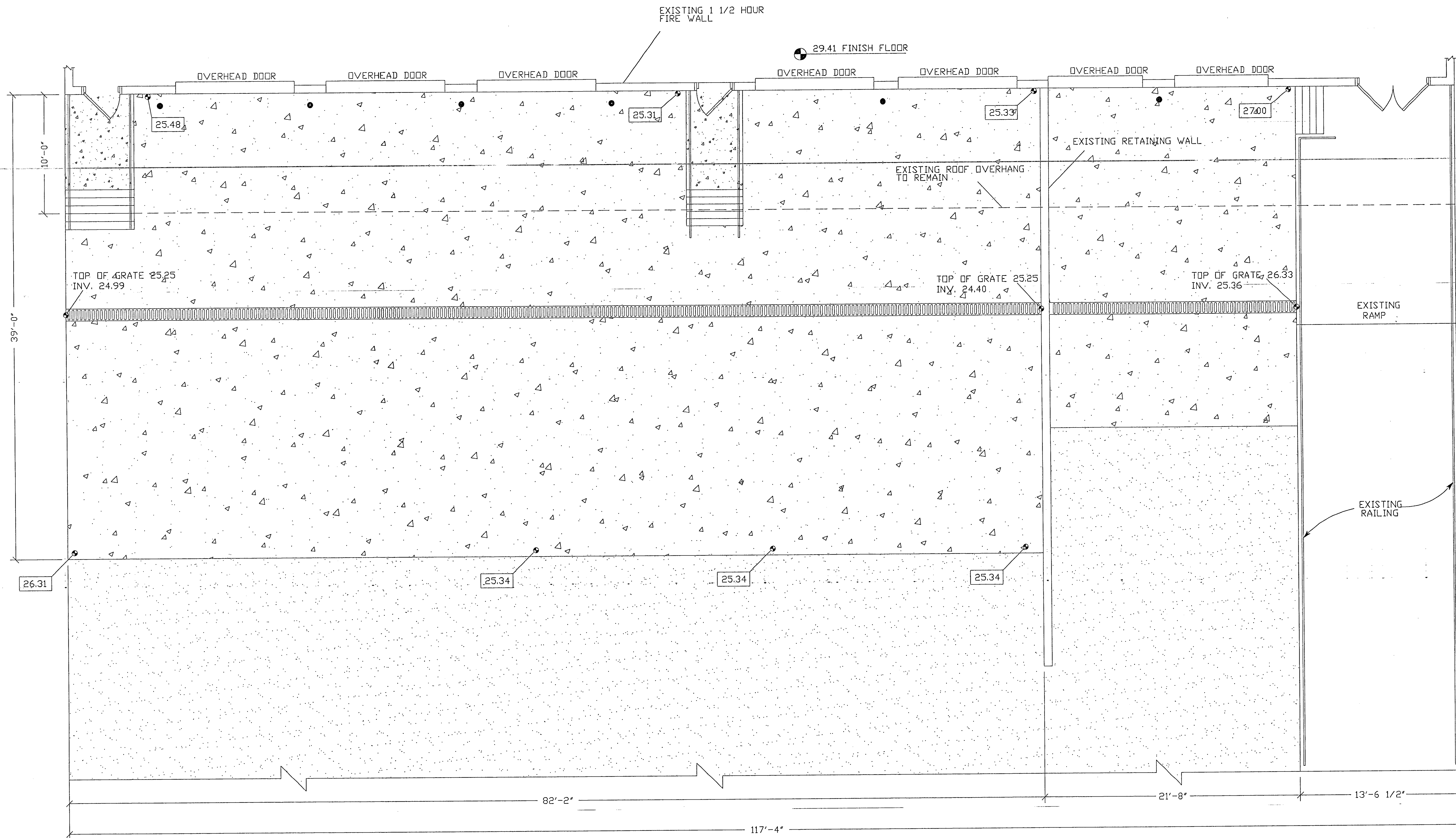
TYPE IV: UNPROTECTED SPRINKLERED

DATE	REVISION	BY	SCALE 1" = 20.0'	© 2001
1/24/03	1	AS-BUILD	RD	CITY ENVIRONMENTAL, SERVICE, INC. OF FLORIDA
	2			7202 EAST EIGHT AVENUE
	3			TAMPA, FLORIDA, 33619
	4			
	5			

P.J. CALLAGHAN  
GENERAL CONTRACTORS  
LICENSE NO. CC000813  
10525 49th ST. NO.  
CLEARWATER, FL 33762  
PH 573-2505, FAX 572-8077

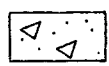
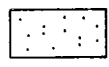

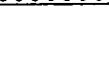
DATE 12/5/01  
DRAWN BY RD  
FILE # 1727  
PAGE NO 2 OF 11  
SHEET NO SP-2

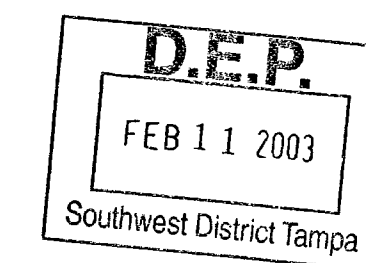
EXISTING OVERHEAD DOORS ARE A MIN. OF 1 1/2 HOUR FIRE DOORS  
EXISTING 6'X7' + 3'X7' DOORS ARE A MIN. 1 1/2 HOUR FIRE DOORS



EXISTING LOADING DOCK FLOOR PLAN  
SCALE 1/4" = 1'-0"

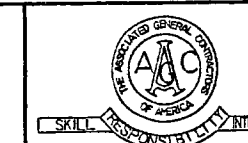
KEY

-  CONCRETE
-  ASPHALT
-  EXISTING PIPE BOLLARD
-  EXISTING TRENCH DRAIN



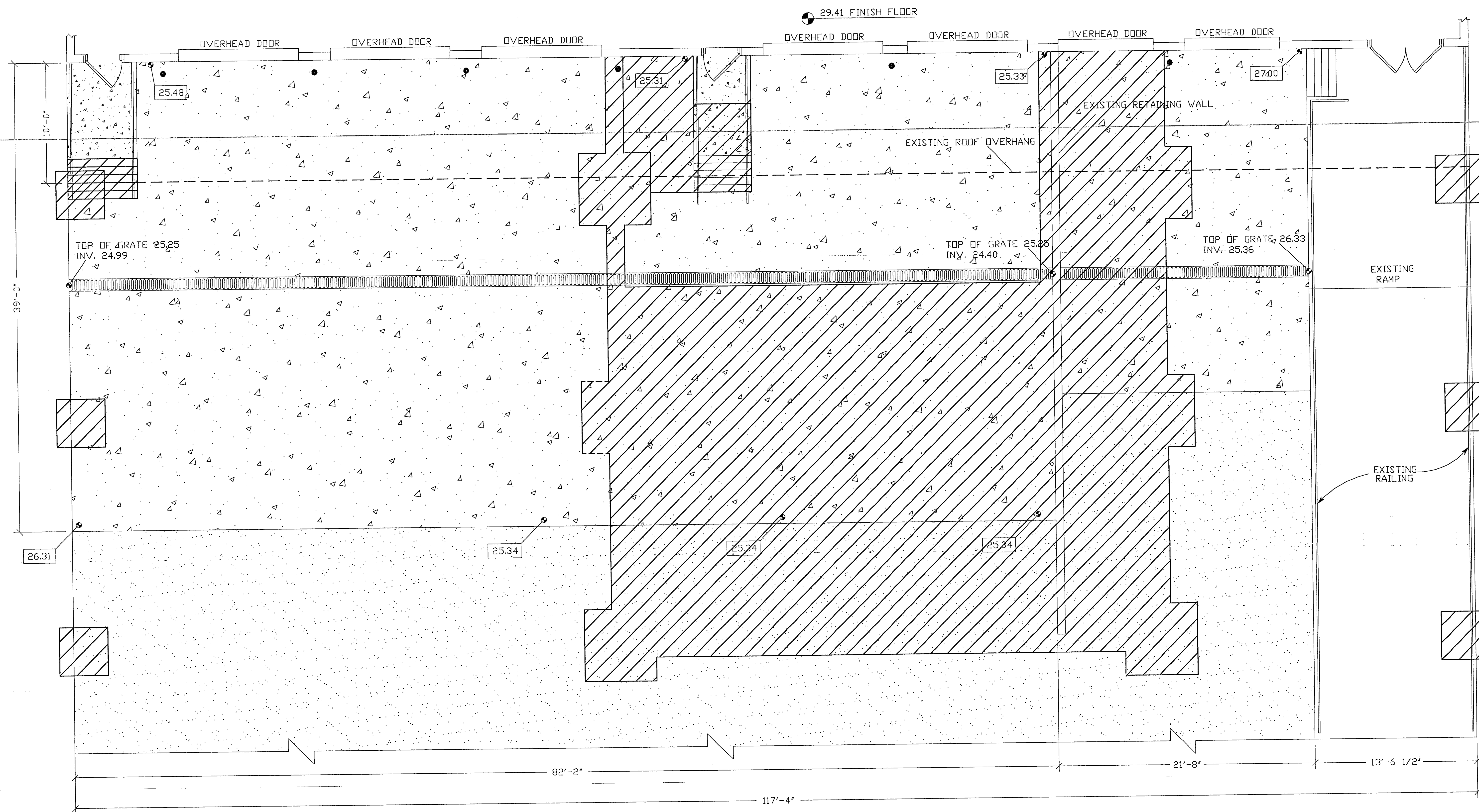
RECEIVED  
FEB 13 2003  
Hazardous Waste Regulation

DATE	REVISION	BY	SCALE 1/4" = 1'-0"	© 2001	DATE	12/3/01
1/24/03	1	AS-BUILD	RD	CITY ENVIRONMENTAL, SERVICE, INC. OF FLORIDA	DRAWN BY	RD
	2			7202 EAST EIGHT AVENUE	FILE #	1727
	3			TAMPA, FLORIDA, 33619	PAGE NO	3 OF 11
	4				SHEET NO	A-1
	5					

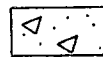
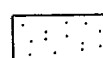

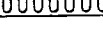
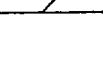


**P.J. CALLAGHAN**  
GENERAL CONTRACTORS  
LICENSE NO. 0000812  
10525 49th ST. NO.  
CLEARWATER FL 33762  
PH 573-2303, FAX 572-8077





KEY

-  CONCRETE
-  ASPHALT
-  EXISTING PIPE BOLLARD
-  EXISTING TRENCH DRAIN
-  AREAS OF DEMOLITION

DEMOLITION PLAN  
SCALE 1/4" = 1'-0"

**D.E.P.**  
FEB 11 2003  
Southwest District Tampa

**RECEIVED**  
FEB 13 2003  
Hazardous Waste Regulation

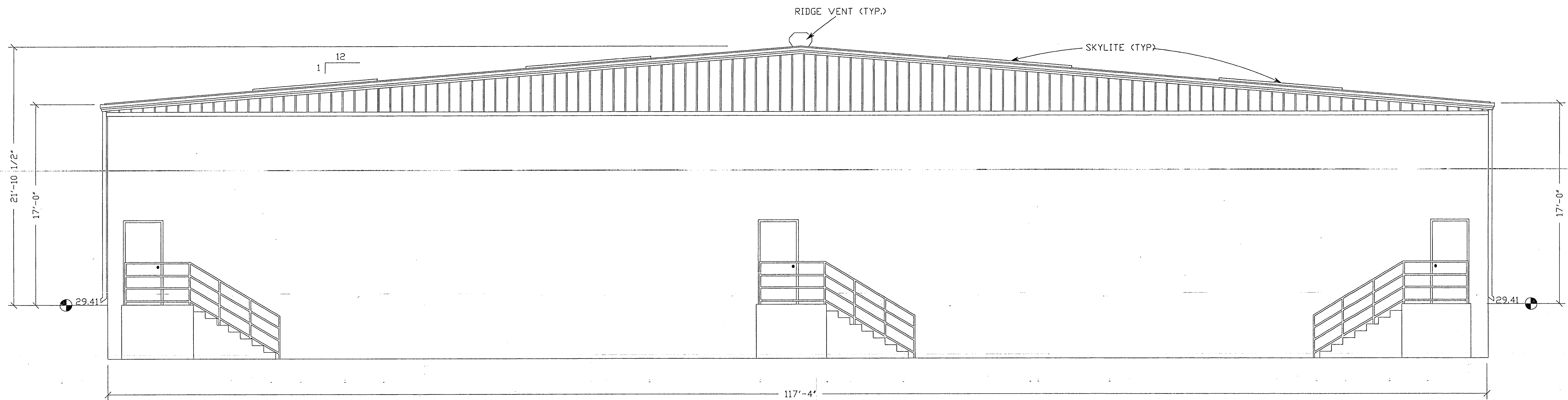
DATE	REVISION	BY	SCALE 1/4" = 1'-0"	© 2001	DATE
1/24/03	1	AS-BUILD	RD	CITY ENVIRONMENTAL, SERVICE, INC. OF FLORIDA	12/3/01
	2			7202 EAST EIGHT AVENUE	DRAWN BY
	3			TAMPA, FLORIDA, 33619	RD
	4				FILE #
	5				1727
					PAGE NO
					4 OF 11
					SHEET NO
					A-2



**P.J. CALLAGHAN**  
GENERAL CONTRACTORS  
LICENSE NO. CC-0008112  
10925 49TH ST. NO.  
CLEARWATER, FL 33762  
PH 573-2506, FAX 572-8077







EAST ELEVATION  
SCALE 1/4" = 1'-0"

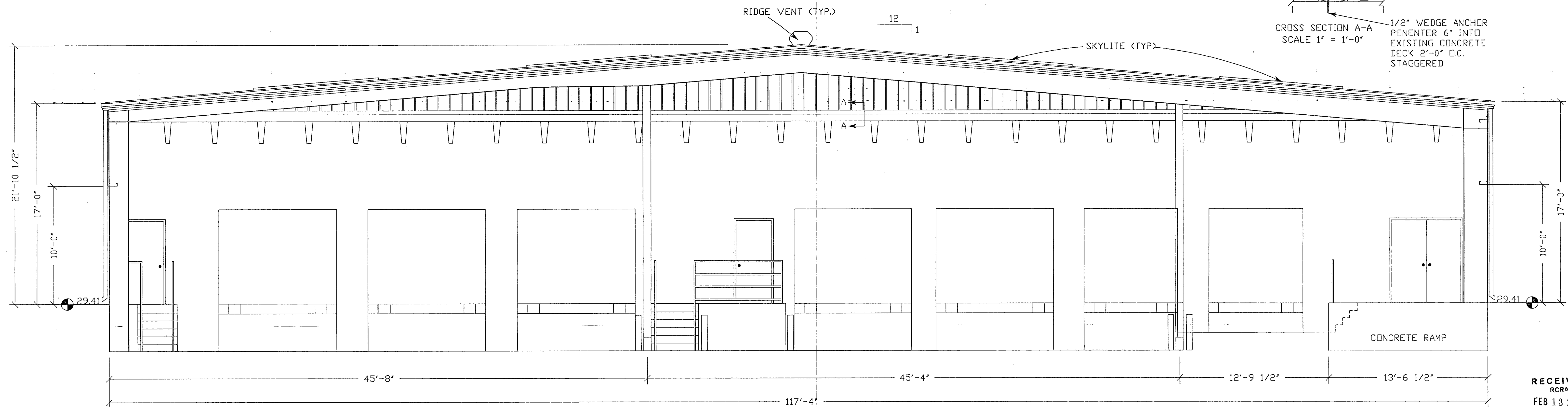
3 EACH 2" X 8" PT  
GLUED & NAILED WITH  
8D GALVANIZED  
1'-4" O.C. STAGGERED

BASE ANGLE & BASE TRIM BY  
PRE ENGINEERED METAL BUILDING  
MANUFACTURE

ROOF TO TIE INTO EXISTING  
BUILD UP ROOF BY  
LICENSED ROOFING CONTRACTOR

CROSS SECTION A-A  
SCALE 1" = 1'-0"

1/2" WEDGE ANCHOR  
PENETER 6" INTO  
EXISTING CONCRETE  
DECK 2'-0" O.C.  
STAGGERED



WEST ELEVATION  
SCALE 1/4" = 1'-0"

DATE	REVISION	BY	SCALE 1/4" = 1'-0"	© 2001
1/24/03	1 AS-BUILD	RD	CITY ENVIRONMENTAL, SERVICE, INC. OF FLORIDA	7202 EAST EIGHT AVENUE
	2		TAMPA, FLORIDA, 33619	
	3			
	4			
	5			

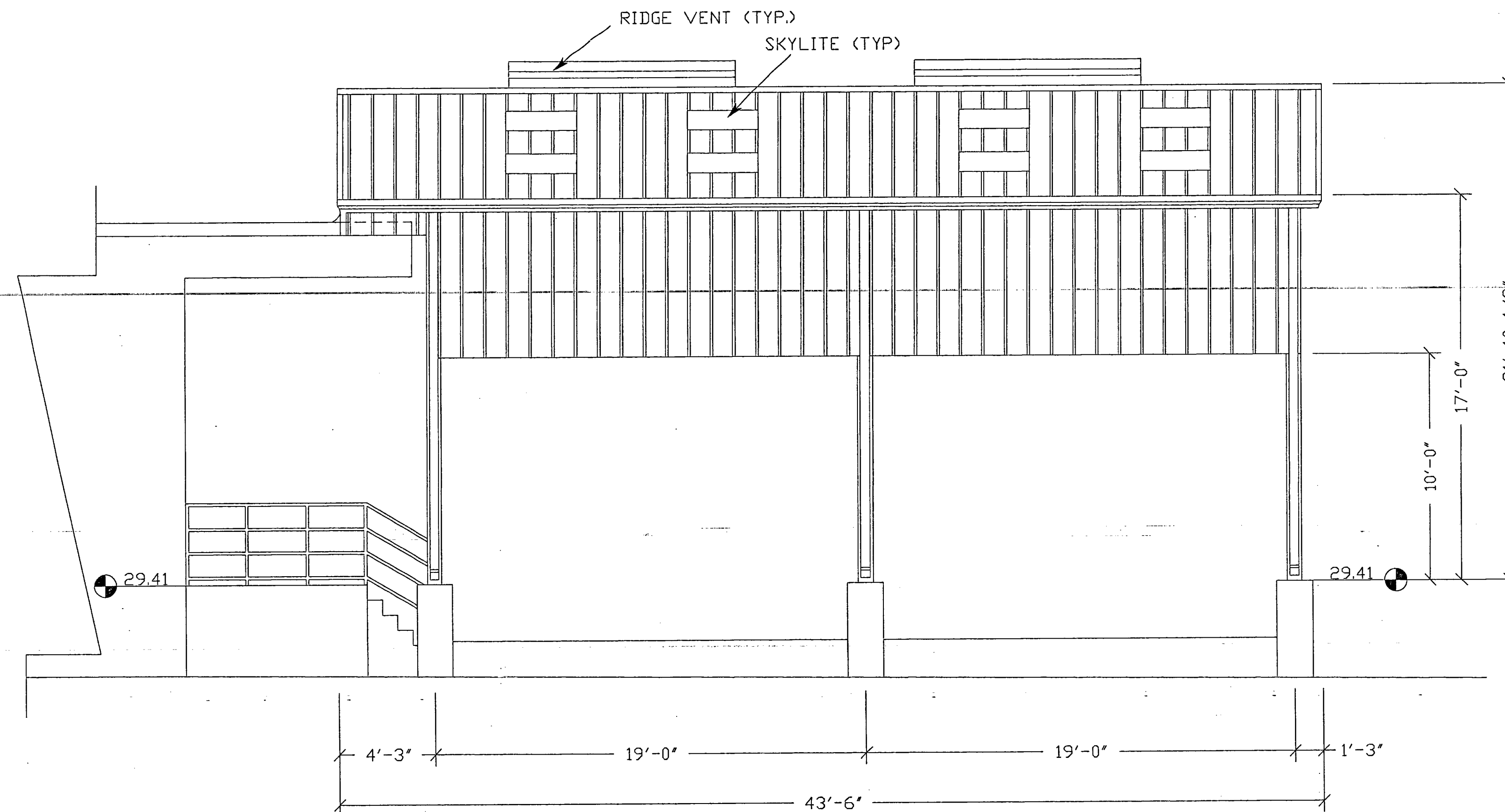


DATE	REVISION	BY	SCALE 1/4" = 1'-0"	© 2001
12/5/01	1 AS-BUILD	RD	CITY ENVIRONMENTAL, SERVICE, INC. OF FLORIDA	7202 EAST EIGHT AVENUE
	2		TAMPA, FLORIDA, 33619	
	3			
	4			
	5			

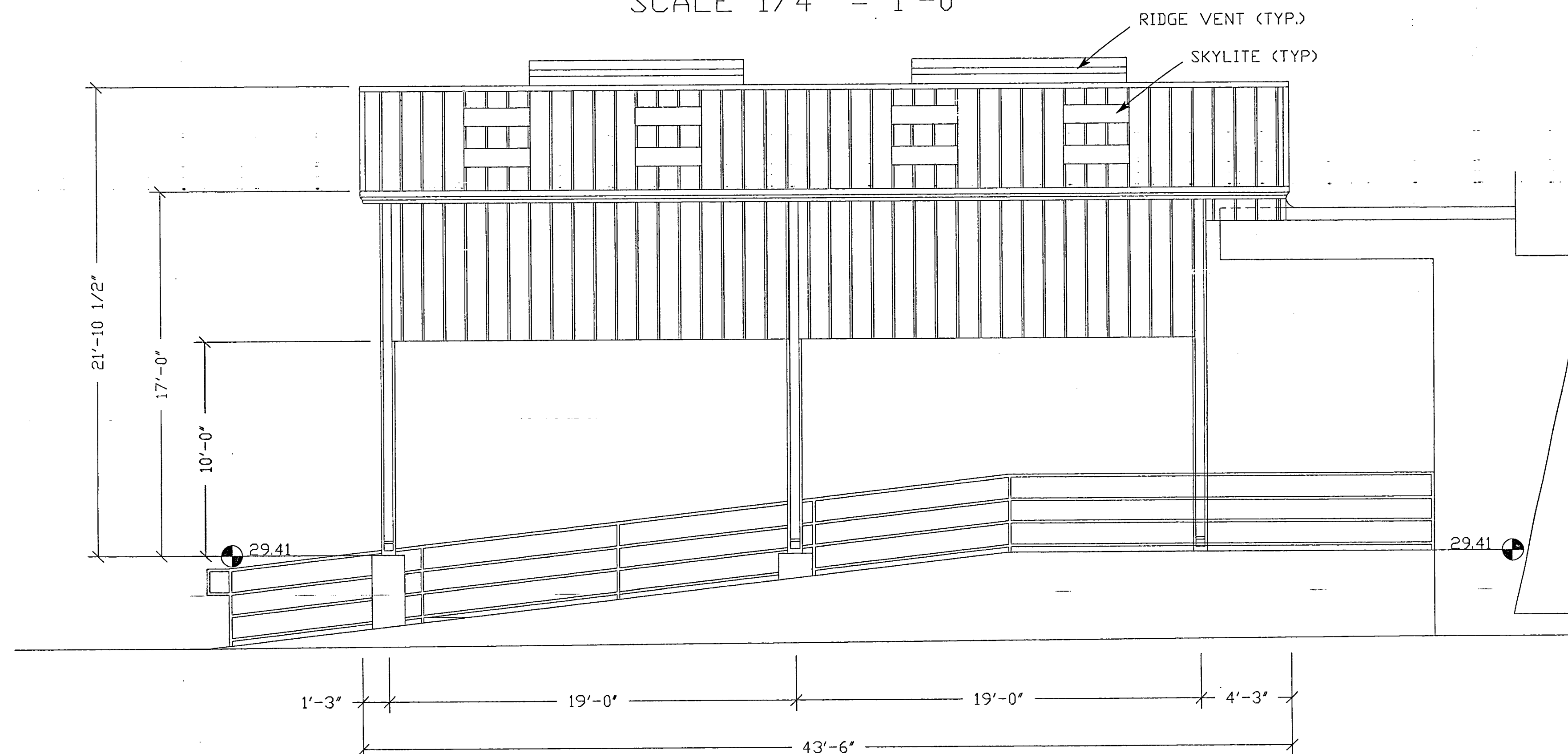
P.J. CALLAGHAN

GENERAL CONTRACTORS  
LICENSE NO. CC008812  
10525 49th ST. NO  
CLEARWATER FL 33762  
PH 573-2503, FAX 572-5017

RECEIVED  
RCRA  
FEB 13 2003  
Hazardous Waste Regulation



NORTH ELEVATION  
SCALE 1/4" = 1'-0"



SOUTH ELEVATION  
SCALE 1/4" = 1'-0"

**D.E.P.**  
FEB 11 2003  
Southwest District Tampa

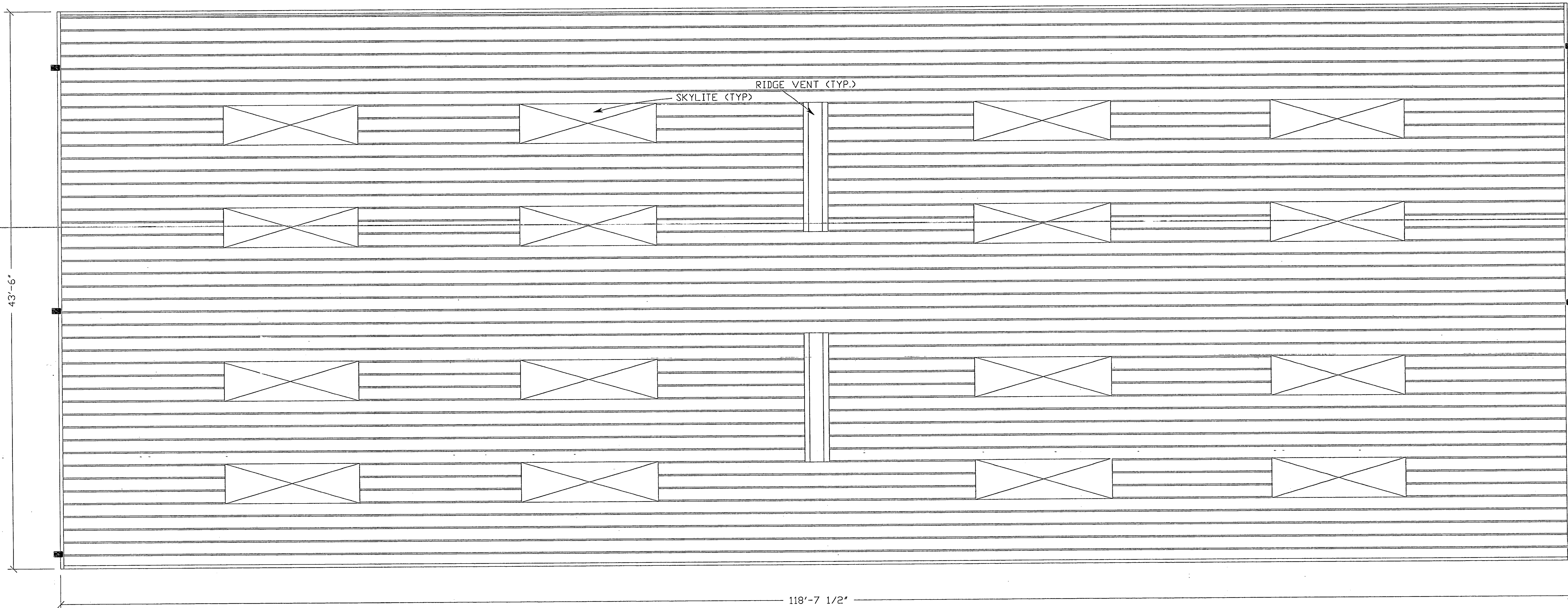
**RECEIVED**  
RCRA  
FEB 13 2003  
Hazardous Waste Regulation

DATE	REVISION	BY	SCALE 1/4" = 1'-0"	© 2001
1/24/03	1 AS-BUILD	RD	CITY ENVIRONMENTAL, SERVICE, INC. OF FLORIDA	
	2		7202 EAST EIGHT AVENUE	
	3		TAMPA, FLORIDA, 33619	
	4			
	5			

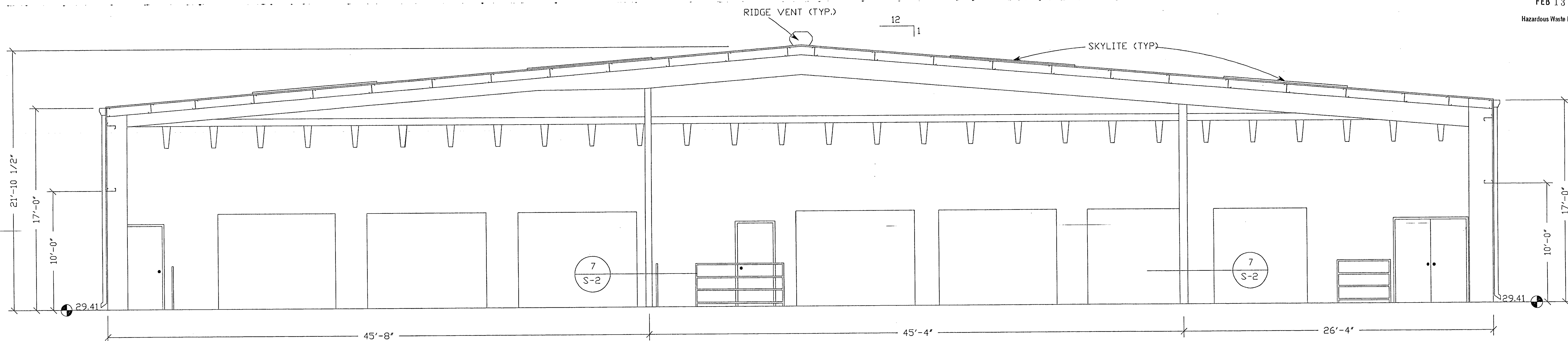


**P.J. CALLAGHAN**  
GENERAL CONTRACTORS  
LICENSE NO. CC008102  
10525 49th ST. NO.  
CLEARWATER, FL 33762  
PH 573-2505, FAX 572-8077

DATE 12/3/01  
DRAWN BY RD  
FILE # 1727  
PAGE NO 7 OF 11  
SHEET NO A-5



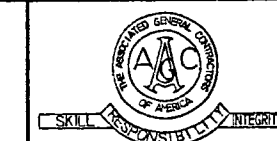
ROOF PANEL PLAN  
SCALE 1/4" = 1'-0"



WALL SECTION  
SCALE 1/4" = 1'-0"

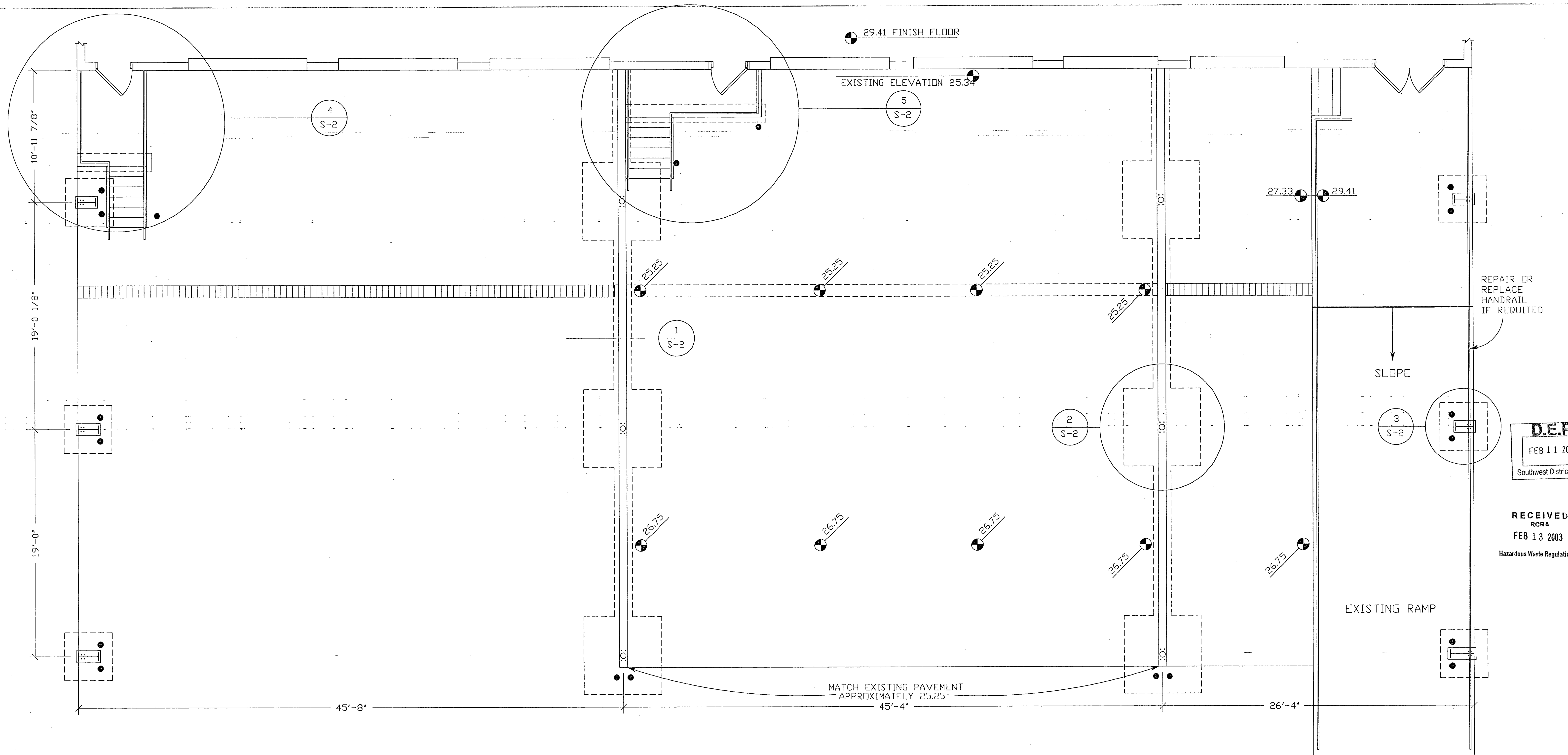
RECEIVED  
RORA  
FEB 13 2003  
Hazardous Waste Regulation

DATE	REVISION	BY	SCALE 1/4" = 1'-0"	© 2001
1/24/03	1	AS-BUILD	RD	CITY ENVIRONMENTAL, SERVICE, INC. OF FLORIDA
	2			7202 EAST EIGHT AVENUE
	3			TAMPA, FLORIDA, 33619
	4			
	5			



**P.J. CALLAGHAN**  
GENERAL CONTRACTORS  
LICENSE NO. 00008102  
10525 49th ST. NO.  
CLEARWATER FL 33762  
PH 573-2505, FAX 572-8077

DATE 12/3/01  
DRAWN BY RD  
FILE # 1727  
PAGE NO 8 OF 11  
SHEET NO A-6



# CONTAINMENT AREA FOUNDATION PLAN

SCALE 1/4" = 1'-0"

- NEW 6" BOLLARDS  
CONCRETE FILLED 48"  
FINISH ELEVATION 36"  
EMBEDDED

DATE	REVISION	BY	SCALE 1/4" = 1'-0"	© 2001
1/24/03	1	AS-BUILD	RD	CITY ENVIRONMENTAL, SERVICE, INC. OF FLORIDA
	2			7202 EAST EIGHT AVENUE
	3			TAMPA, FLORIDA, 33619
	4			
	5			



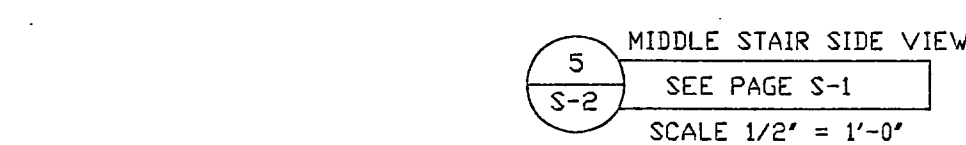
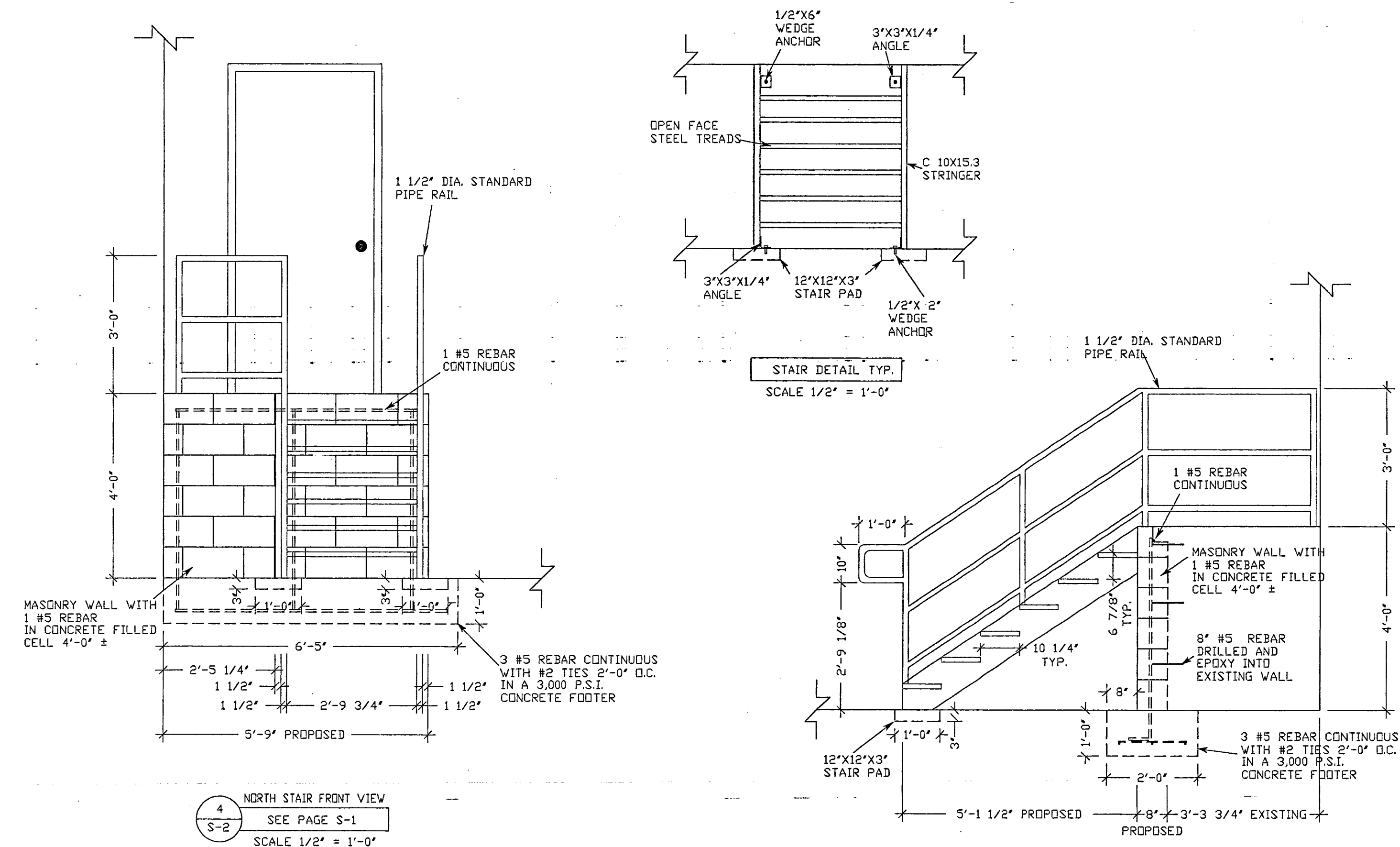
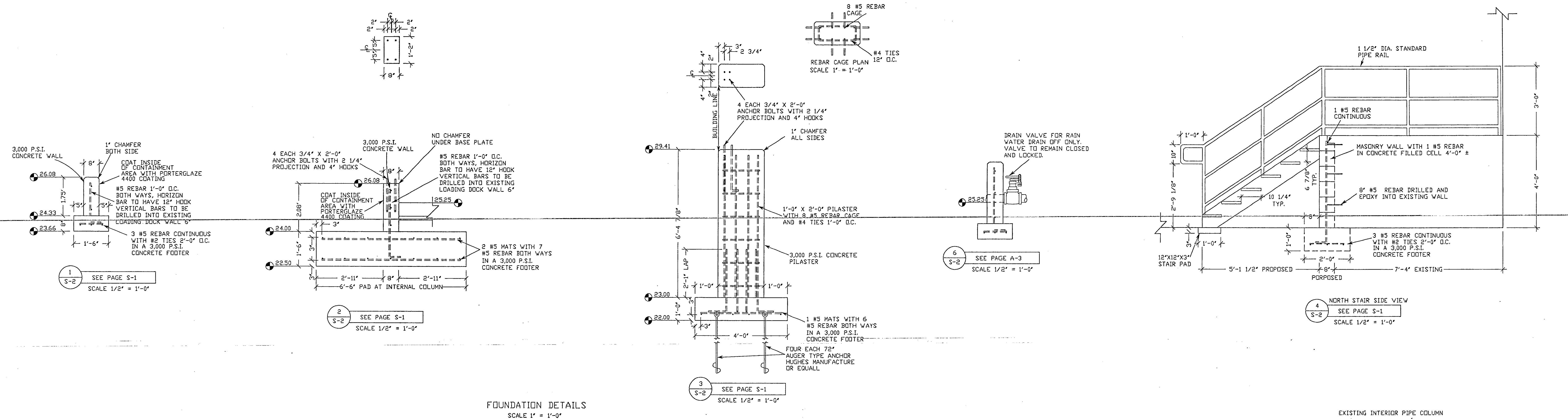
**P.J. CALLAGHAN**  
GENERAL CONTRACTORS  
LICENSE NO. CC000812  
10525 49th ST, NO  
CLEARWATER, FL 33762  
PH 573-2505, FAX 572-8077

**D.E.P.**  
FEB 11 2003  
Southwest District

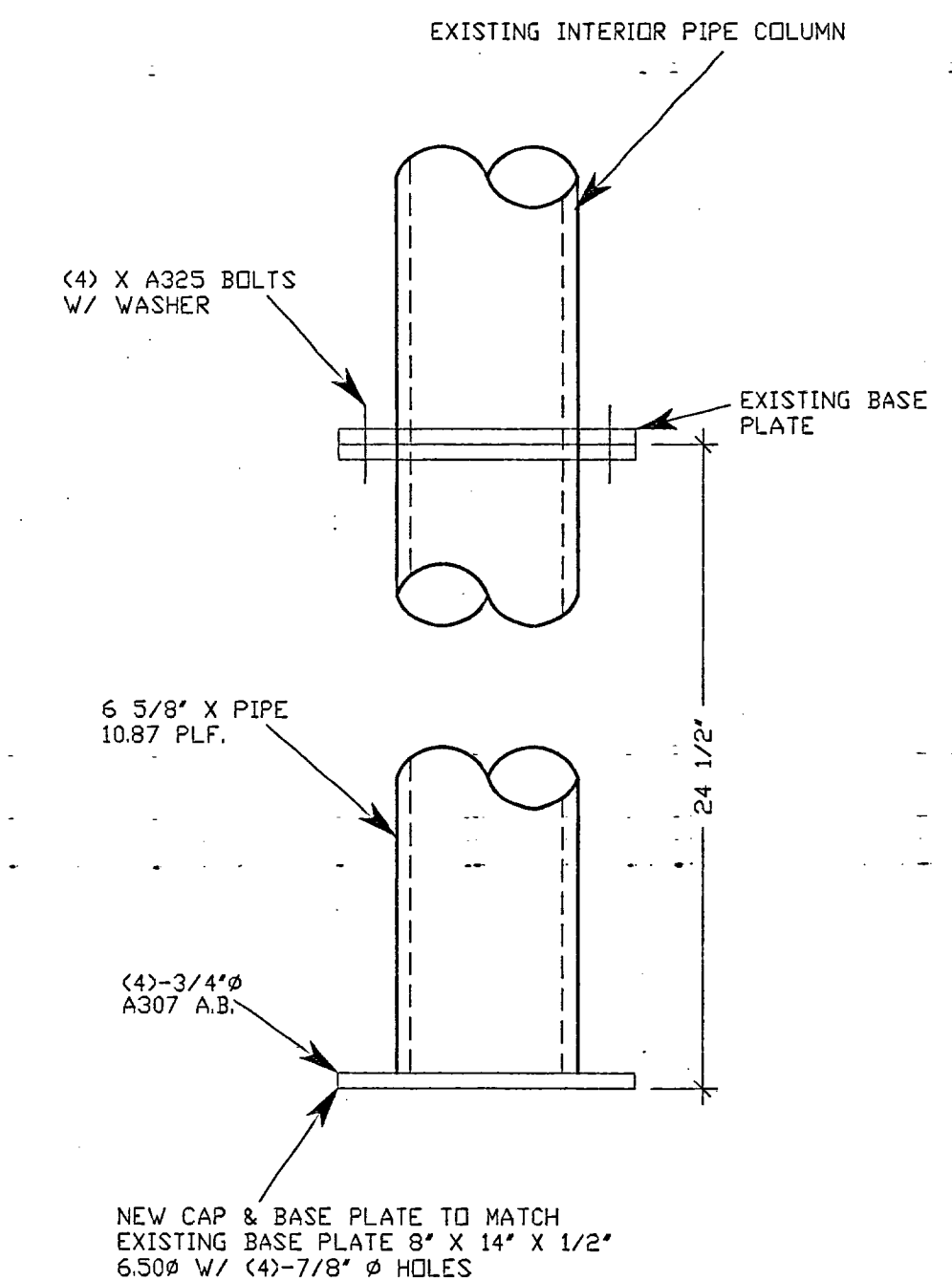
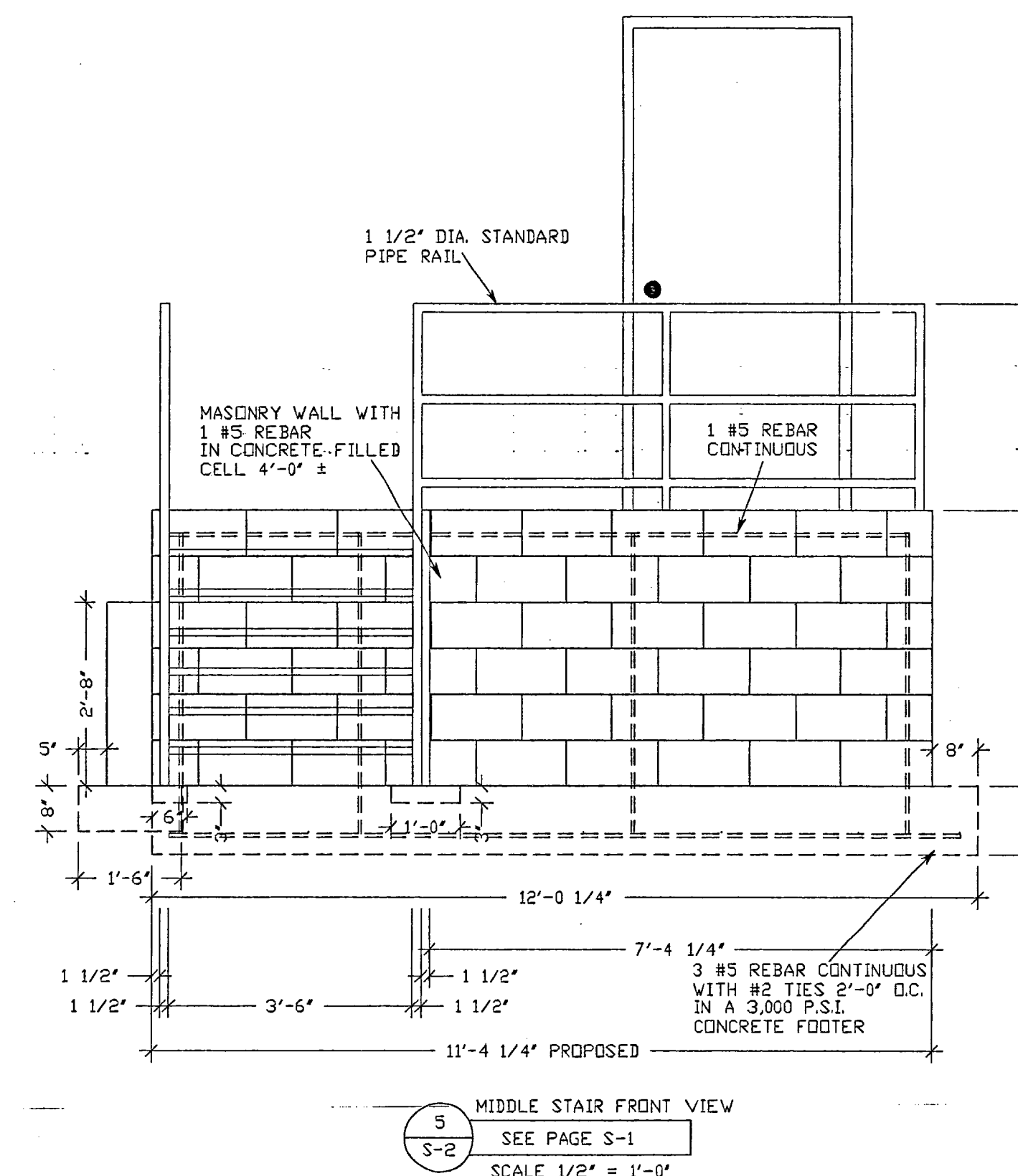
**RECEIVED**  
RCRA  
FEB 13 2003  
Hazardous Waste Regulation

DATE 12/5/01  
DRAWN BY RD  
FILE # 1727  
PAGE NO 9 OF 11  
SHEET NO S-1





STAIR DETAILS  
SCALE 1/2" = 1'-0"



DATE	REVISION	BY	SCALE 1/2" = 1'-0"	© 2001
1/24/03	1	AS-BUILD	RD	CITY ENVIRONMENTAL, SERVICE, INC. OF FLORIDA
	2			7202 EAST EIGHT AVENUE
	3			TAMPA, FLORIDA, 33619
	4			
	5			

P.J. CALLAGHAN

GENERAL CONTRACTORS  
10525 49TH ST. NO. 1  
CLEARWATER, FL 34622  
PH 573-2505, FAX 572-8077

DATE: 12/5/01  
DRAWN BY: RD  
FILE # 1727  
PAGE NO: 10 OF 11  
SHEET NO: S-2

## **APPENDIX E**

### ***SWFWMD Well Inventory***

## SWFWMD WELL INVENTORY <sup>1</sup>

Permit No.	Original Well Owner	Current Property Owner	Site Address	Reported Well Use
318215	Hackett, C.A.	Hillsborough County	1800 N Orient Road, Tampa	Domestic
490957	Florida Mega-Mix, Inc.	Dailey, Terence P. & Kathleen H.	1902 N 69th Street, Tampa	Public
483237 <sup>2</sup>	Universal Waste, Inc.	EQ Florida, Inc.	2002 N Orient Road, Tampa	Industrial
305163	Stauffer Chemical Co.	Stauffer Management Company, LLC	2009 N Orient Road, Tampa	Industrial
687154	Alaric	Sawtooth Land, LLC	2110 N 71st Street, Tampa	Injection Well
467955	Levant, Lee	Trademark Metals Recycling, LLC	6912 E 9th Avenue, Tampa	Irrigation
547815	Dupree, James W.	Matthews, Jeffery B. & Bonnie S.	7110 E 14th Avenue, Tampa	Domestic

NOTES:

1 - Permitted well inventory within a 1,000-foot buffer of the US Ecology Tampa, Inc. facility, **excluding** plugged, monitoring, and remediation wells and withdrawn or denied permits.

2 - Former industrial well located on the US Ecology Tampa, Inc. property is no longer in service and has been properly abandoned and capped.







## **APPENDIX F**

### ***Financial Assurance Documentation***

***Requisite Financial Assurance Documentation will be issued within 30 days of the Department's review and acceptance of the facility closure cost estimate provided in Section 9.0 of this Permit Application.***

## **APPENDIX G**

### ***Solid Waste Management Units***

**US Ecology Tampa, Inc.**  
**Solid Waste Management Unit (SWMU)**  
**Identification Summary**

<b>SWMU No.</b>	<b>SWMU Name / Description</b>	<b>Years of Operation</b>	<b>Waste Managed</b>	<b>Evidence of Release</b>
1	Container Storage Building (CSB)	June 1990 - Present	Permitted Wastes	None
2	Loading/Unloading Docks (Improved Secondary Containment Area [ISCA])	June 1990 - Present	Permitted Wastes	None
3	Stormwater Retention Pond	June 1990 - Present	Stormwater	None
4	Filter Press	Certified Closed on 10/31/2013	None	None
5	Municipal Waste Dumpster	June 1990 - Present	RCRA Empty Containers, Office Waste	None
6	Stormwater Pre-Treatment Unit	June 1990 - Present	Stormwater	None
7	Waste Processing Building (WPB)	June 2006 - Present	Hazardous & Non-Hazardous Waste	None
8	Universal Waste Battery Storage Area	January 2009 - Present	Universal Waste Batteries	None
9	Paint Can Crushing Area	1996 - Present	Scrap Cans and Paint	None
10	Roll-Off Storage Area (Solid Waste Operations Area)	July 2010 - Present	Non-Hazardous Waste	None
11	10-Day Transfer & Inbound/Outbound (I/O) Staging Area	July 2011 - Present	Permitted Wastes	None
12	Used Oil Facility	June 1990 - Present	Used Oil	None
13	Satellite Accumulation Area	January 2002 - Present	Laboratory Waste	None
14	Parts Washer	January 2009 - Present	Parts Washer Solvent	None
15	Additional Retention Pond	July 2010 - Present	Stormwater	None
16	Universal Waste Lamp Storage Area	2002 - Present	Universal Waste Lamps	None
17	Aerosol Can Crushing Area	Removed & Scrapped Circa 2010	None	None
18	Drum Crushing Area	1996 - Present	RCRA Empty Metal Containers	None
19	Oil-Water Separator System	Never Constructed	None	None
20a	Bulk Container Storage Area (BCSA)	2016 - Present	Hazardous & Non-Hazardous Waste	None
20b	Bulk Container Storage Area (BCSA)	2016 - Present	Hazardous & Non-Hazardous Waste	None
20c	Bulk Container Storage Area (BCSA)	2016 - Present	Hazardous & Non-Hazardous Waste	None
20d	Bulk Container Storage Area (BCSA)	2019 - Consolidated with SWMU 20b	Hazardous & Non-Hazardous Waste	None

The locations of the SWMUs summarized above are depicted on Figure 17.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.  
ATLANTA, GEORGIA 30365

JAN 30 1989

4WD-RCRA

Mr. Barry Swihart, Chief  
Bureau of Waste Planning and Regulation  
Florida Department of Environmental  
Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

RECEIVED

FEB 26 1989

RE: Universal Waste and Transit, Inc.  
EPA I.D. Number FLD 981 932 544

HAZARDOUS WASTE  
PERMITTING

Dear Mr. Swihart:

The Environmental Protection Agency (EPA) conducted a Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) at the referenced facility on August 18, 1988. This is a new facility and it was determined that there has been no evidence of a prior or continuing release of hazardous wastes or hazardous constituents at this site. Therefore, at this time, Section 3004(u) of the Hazardous and Solid Waste Amendments (HSWA) of 1984 does not apply.

Since, apparently, only the Section 3005(h) waste minimization and Section 3004(d) prohibitions on land disposal of specified wastes requirements of HSWA apply to this facility, a separate permit would not be required, provided the State permit incorporates these requirements. In this case, the State permit would constitute the full RCRA permit.

For facilities where only the above mentioned sections apply, the public notice, the notice of intent to issue, and cover page of the permit should contain the following information:


1. EPA has determined that the provisions of 3004(u) of HSWA do not apply; but if new information to the contrary becomes available, the permit may be reopened.
2. The permit incorporates both the Section 3005(h) HSWA Waste minimization certification requirements and Section 3004(d) Land Disposal prohibitions.
3. The State permit constitutes the full RCRA permit, and a federal permit is not required to address the provisions of HSWA.

Additionally, the permit should incorporate the waste minimization requirements, land disposal restrictions and condition for reopening the permit if it is later determined that 3004(u) applies.

We have enclosed recommended wording for inclusion in the public notice, notice of intent to issue, permit cover page and permit conditions.

If you have any questions concerning this matter, please contact Harry Desai at (404) 347-3433.

Sincerely yours,

  
James H. Scarbrough, P.E.  
Chief, RCRA Branch  
Waste Management Division

Enclosure

cc: Satish Kastury, FDER, Tallahassee  
Bill Crawford, FDER, Southwest District



The Environmental Quality Company  
FLD 981 932 494  
Operating Permit 34875-HO-009

*RCRA Facility Assessment (RFA)  
Addendum*

Prepared by  
Merlin D. Russell Jr, P.G.



May 13, 2011



Contents.....	Page
1.0 Introduction .....	3
2.0 Corrective Action Chronology .....	5
3.0 Facility Description & Operations .....	8
4.0 References .....	10
5.0 SWMU/AOC Summary Table .....	11
6.0 SWMU/AOC Data Sheets .....	12
7.0 Figure .....	38
8.0 Index.....	39



## 1.0 Introduction

The purpose of a RCRA Facility Assessment (RFA) is to compile existing information on environmental conditions at a given facility, including information on actual or potential releases. The RFA includes a review of existing information about a facility, a visit to the facility, and, if warranted, limited sampling to determine if there is an actual or potential release of hazardous wastes or hazardous constituents from the Solid Waste Management Units (SWMU) or Areas of Concern (AOC) at the facility. The primary decision point is a determination of whether there is the potential for contamination at levels that would pose human health or ecological concerns. If no further investigation or remediation is necessary, the Department of Environmental Protection (DEP or Department) issues a "No Further Action at this Time" This RFA addendum provides an update to the original RFA. This addendum provides information for twelve additional SWMUs (SWMU-7 through SWMU-18). The information is based upon documents listed in Section 4.0 References of this addendum, information submitted by EQ and the DEP inspection of August 25, 2010.

The original RCRA Facility Assessment Report was completed for Universal Waste & Transit, Inc., and was dated March 1995. That RFA identified six SWMUs. These six SWMUs are not discussed in detail in this addendum. The current Operating Permit 34875-HO-009, issued on June 14, 2006, contains the following SWMU list:

**TABLE 1**

• SWMU-1, Drum Storage Area	• SWMU-2, Loading and Unloading Area
• SWMU-3, Pre-Treatment Unit	• SWMU-4, Filter Press
• SWMU-5, Municipal Waste Dumpster	• SWMU-6, Retention Pond
• SWMU-7, Solid Waste Processing Building	• SWMU-8, Batteries Storage Area
• SWMU-9, Paint Can Crushing Area, and	• SWMU-10, Roll-off Storage Area

Each of these SWMUs has been given a No Further Action recommendation. A review of FDEP files revealed that a RFA Addendum had not been completed for SWMUs seven through ten above. In addition, the summary above is in error as it reversed the number assignments and names for SWMUs 3 and 6. As shown in section 2.0 below, SWMU-3 is actually the Retention Pond and SWMU-6 is actually the Pre-treatment Unit used to treat stormwater before it enters the Retention Pond.

On July 22, 2010, EQ submitted a renewal application for their Part B. The review of the Part B determined that the SWMU information was incomplete although much of the information was provided in various parts of the Part B. The request to update and consolidate the SWMU information was embodied in the First Notice of Deficiencies dated September 22, 2010.

On November 4, 2010, EQ submitted updated SWMU information to the Department as part of their response to the First Notice of Deficiencies. Upon receipt, the Department initiated the drafting of this RFA Addendum.

## **2.0 Corrective Action Chronology**

EPA conducted the initial Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) at this location on August 18, 1988. At that time, the construction of the facility was not completed and it was determined that there was no evidence of a prior or continuing release of hazardous wastes or hazardous constituents at the site. Therefore, at that time, Section 3004(u) of the Hazardous and Solid Waste Amendments (HSWA) of 1984 did not apply.

On January 30, 1990, a site inspection was conducted to verify completion of construction activities. On July 3, 1990, DEP Tampa issued Universal Waste & Transit (UW&T) an operating permit for a Hazardous Waste Storage and Treatment Facility.

During the week of February 15-19, 1993, DEP Tallahassee conducted a facility file search. The search consisted of the review of UW&T's November 15, 1990 and May 21, 1991 RCRA Compliance Inspection Reports, permitting files, Superfund files, the permit application and the Operating Permit. The file search enabled staff to compile background data on existing and potential SWMUs and the regulatory history of the facility.

On February 25, 1993, a VSI was conducted by both DEP and EPA staff. The inspection was led by Wanda Parker (FDEP) and Harry Desai (EPA). The other attendees were Bheem Kothur (FDEP), Roger Evans (FDEP, Tampa), and John Taylor, General Manager for UW&T.

The 1993 the draft RFA (PR and VSI) resulted in the identification of six SWMUs. The findings and suggested further actions for this facility are summarized in Table 2 below. No further action was suggested for four of the SWMUs: Drum Storage Area and five Sumps (SWMU #1), Loading/Unloading Area (SWMU #2), Filter Press (SWMU #4), and Municipal Waste Dumpster (SWMU #5). Confirmatory soil sampling was recommended for the unlined retention pond (SWMU #3). Confirmatory sampling of influent and effluent of the pretreatment system (SWMU #6) was also recommended. These original six SWMUs are not discussed further in this RFA Addendum.

**TABLE 2**

SWMU IDENTIFICATION SUMMARY										
SWMU NO.	TYPE OF UNIT	YEARS OF OPERATION	WASTE MANAGED	POLLUTANT MIGRATION PATHWAYS	EVIDENCE OF RELEASE	EXPOSURE POTENTIAL	RECOMMENDATIONS			
							Confirmatory Sampling	RFI	NFA	FURTHER ASSESSMENT
1 *	Drum Storage Area	June 1990 - Present	Permitted Wastes (see Appendix A)	Air, Soil, Surface Water, Ground Water	None	L			X	
2 *	Loading/Unloading Area	June 1990 - Present	Permitted Wastes (see Appendix A)	Air, Soil, Surface Water, Ground Water	None	L			X	
3	Retention Pond	June 1990 - Present	Storm Water	Air, Soil, Surface Water, Ground Water	None	M	X			
4 *	Filter Press	June 1990 - Present	Non-hazardous wastes (One-time test )	Air, Soil, Surface Water, Ground Water	None	L			X	
5	Municipal Waste Dumpster	June 1990 - Present	Empty storage containers, paint cans, office wastes	Air, Soil, Surface Water, Ground Water	None	L			X	
6	Pre-treatment Unit	June 1990 - Present	Storm Water	Air, Soil, Surface Water, Ground Water	None	M	X			

\* = RCRA Regulated Unit

The RFA Report for UT&W was finalized by FDEP in March, 1995.

In a letter dated April 18, 1996, a request for a name change to City Environmental Services, Inc., (dated March 29, 1996), was submitted to DEP for approval. In a May 27, 1998 letter to DEP, the name was changed again to USL City Environmental Services of Florida, Inc. That change was approved on June 4, 1998. A January 9, 2001 request to change the name from USL City Environmental Services of Florida to US Liquids of Florida was approved by DEP on January 30, 2001. A February 5, 2004 request to change the name from US Liquids of Florida to EQ Florida Inc. was approved by DEP on February 13, 2004.

The current Operating Permit 34875-HO-009 was issued to EQ on June 14, 2006 and contains the following SWMU summary:

**TABLE 3**

<ul style="list-style-type: none"> <li>• SWMU-1, Drum Storage Area</li> <li>• SWMU-3, Pre-Treatment Unit</li> <li>• SWMU-5, Municipal Waste Dumpster</li> <li>• SWMU-7, Solid Waste Processing Building</li> <li>• SWMU-9, Paint Can Crushing Area, and</li> </ul>	<ul style="list-style-type: none"> <li>• SWMU-2, Loading and Unloading Area</li> <li>• SWMU-4, Filter Press</li> <li>• SWMU-6, Retention Pond</li> <li>• SWMU-8, Batteries Storage Area</li> <li>• SWMU-10, Roll-off Storage Area</li> </ul>
--	--

Each of these SWMUs has a No Further Action recommendation.

On July 22, 2010, EQ submitted a renewal application for their Part B. The review of the Part B determined that the SWMU information was incomplete although much of the information had

been submitted in various parts of the Part B. The request to update and consolidate the SWMU information was embodied in the First Notice of Deficiencies dated September 22, 2010.

On November 4, 2010, EQ submitted updated SWMU information to the Department as part of their response to the First Notice of Deficiencies. Upon receipt, the Department initiated the drafting of this RFA Addendum.

Included in this addendum are summary sheets describing each additional SWMU<sup>1</sup>, photographs and a location map (Figure 5.14 from the Part B).

---

<sup>1</sup> Other than the original SWMUs identified in the UW&T RFA dated December 1995.

### 3.0 Facility Description & Operations

The EQ facility is a permitted hazardous waste storage and treatment facility. No on-site disposal occurs at EQ. EQ also manages non-hazardous regulated waste, household hazardous waste, used oil and filters, mercury containing lamps and devices, TSCA-exempt and limited quantity exempt PCB and asbestos wastes, recyclable materials, and other similar substances, materials, and wastes. The primary waste management operations are storage and transfer.

The facility consists of the 4.46-acre, more or less (MOL), site. The permitted hazardous waste storage facility located on site is a 5,866 square foot (MOL) building, which was specifically designed for hazardous waste management. The container storage building is composed of three separate bays separated by an eight-inch wide concrete block wall and fire doors. The wall extends from the floor to the roof and has been designed with a minimum fire resistance of four hours. Container storage is also allowed under a 1,786 square foot (MOL) improved secondary containment area located on the loading dock side of Bay 2.

The total hazardous waste capacity within the building and covered outside storage area is 50,000 gallons. The hazardous waste consists of solids, sludges, liquids, and lab packs.

Prior to construction, the land had been undeveloped. There were no existing SWMUs located at this location.

The surrounding land uses are heavy industrial. Land uses include two National Priority List (NPL) sites, metal recyclers, a construction debris transfer facility, steel cleaning and coating, fishery, gas manufacturing, a pesticide formulator, and bail bonds businesses. The facility is located in the City of Tampa in a heavy industrial area known as Orient Park. The area is zoned heavy industrial. The City of Tampa classifies this area as suitable for hazardous waste facilities.

The primary operation at the EQ facility is storage of hazardous waste in containers, primarily 55-gallon drums. Some waste is re-containerized or consolidated in other containers of similar size or larger. Re-containerization operations may also include use of the paint can crusher, aerosol spray can recycler, and/or drum crusher. Wastes are primarily shipped out of the facility in 55-gallon drums, although some wastes are consolidated in roll-off dumpsters or tanker trucks.

The following waste type categories are handled at the facility: solid waste, flammable, poisons, toxic, acids, alkaline, Hazardous Organic Compounds (HOC), oxidizers, reactive and Otherwise Regulated Material (ORM or Class 9). No regulated explosive, regulated radioactive, or regulated biohazardous waste are managed at EQ. Waste types include liquids, solids, sludges, and lab packs. Lab pack waste usually consists of waste generated by private (household) individuals such as paints, pesticides, household wastes, etc.

EQ is also authorized to operate a transfer facility on site in accordance with Rule 62-730.171, Florida Administrative Code (F.A.C.), and is authorized to hold manifested hazardous waste on site not to exceed ten (10) days as allowed for transfer facilities. Current regulations allow transfer facility waste to be held anywhere on the paved lot within the facility boundary. The maximum permitted capacity is limited to 20,000 gallons or 100 cubic yards.

EQ is also a used oil and used oil filter transporter and transfer facility in accordance with Chapter 62-710, F.A.C.

EQ is a transporter and handler of mercury containing lamps and devices that are regulated in accordance with Chapter 62-737, F.A.C.

EQ manages Solid Waste in accordance with its solid waste permit (34757-003-SO and 34757-005-SO) and Chapter 62-701, F.A.C.

EQ also manages household hazardous waste (HHW) at the facility. This waste is regulated as a Solid Waste. Any HHW received with a hazardous waste manifest is managed as hazardous waste.

EQ also manages pharmaceutical wastes in accordance with a Drugs, Devices and Cosmetics permit (53; 00007) issued by the Florida Department of Health.

## 4.0 References

The following documents were used in preparation of this amended RFA (listed chronologically):

1. EQ's additional information for the Operating Permit Renewal dated April 28, 2011.
2. EQ's (Stuart Stapleton) e-mail dated April 25, 2011 containing information.
3. EQ's response to the Second Notice of Deficiencies dated February 10, 2011.
4. EQ's (Stuart Stapleton) e-mail dated January 25, 2011 containing photographs and information.
5. EQ's (Stuart Stapleton) e-mail dated January 18, 2011 containing photographs and information.
6. EQ's response to the First Notice of Deficiencies dated November 4, 2010.
7. FDEP Inspection report dated August 25, 2010.
8. EQ's Part B renewal dated July 22, 2010.
9. Kleinfelder's *Monitoring Well Installation and Sampling Report* dated November 4, 2009
10. *RCRA Facility Assessment Report for Universal Waste & Transit, Inc.*, March 1995, prepared by Florida Department of Environmental Protection.



## 5.0 SWMU/AOC Summary Table

<b>SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN SUMMARY TABLE</b>						
<b>SWMU or AOC #</b>	<b>Waste Management Unit/Area of Concern Name</b>	<b>Type of Unit</b>	<b>Evidence of releases</b>	<b>Suggested Action</b>		<b>Wastes Managed</b>
				<b>NFA at This Time</b>	<b>Confirmatory Sampling Required</b>	
SWMU-7	Solid Waste Processing Facility	Treatment and Storage	No	X		Non-hazardous materials
SWMU-8	Universal Waste Battery Storage Area	Storage	No	X		Used batteries
SWMU-9	Paint Can Crushing Area	Treatment and Storage	No	X		Water- and solvent-based paints
SWMU-10	Roll-off Storage	Storage	No	X		Non-hazardous materials
SWMU-11	Transfer Facility	Temporary Holding of Waste	No	X		Hazardous Waste
SWMU-12	Used Oil Facility	Storage	No	X		Used oil
SWMU-13	Satellite Accumulation Area	Storage	No	X		Laboratory chemicals
SWMU-14	Parts Washer	Treatment and Storage	No	X		Solvents
SWMU-15	Additional Retention Pond	Treatment, Storage & Disposal	No		X	Storm water
SWMU-16	Universal Waste Lamp Storage Area	Storage	No	X		Fluorescent lamps
SWMU-17	Aerosol Can Crushing	Treatment and Storage	No	X		Aerosol cans
SWMU-18	Drum Crushing	Treatment and Storage	No	X		Drums and drum residues

## **6.0 SWMU/AOC Data Sheets**

**WASTE MANAGEMENT AREA /AREA OF CONCERN  
DATA SHEET**

<b>WASTE MANAGEMENT AREA/AREA OF CONCERN REFERENCE NUMBER</b>	<b>SWMU-7</b>
<b>NAME</b>	Solid Waste Processing Facility ( <i>aka</i> Solid Waste Processing Area)
<b>TYPE OF UNIT</b>	Treatment and storage
<b>DESCRIPTION OF WASTE MANAGED</b>	Non-hazardous materials
<b>PHYSICAL DESCRIPTION AND CONDITION</b>	<p>The Materials Processing Facility (MPF) is an 8,050 square foot building located on the 8<sup>th</sup> Avenue property (southern portion of property). The building is used for processing, staging, storage and management of non-hazardous regulated solid waste. Processing includes segregation, decanting, filtration, transfer, shredding, or solidification. The storage capacity of the MPF is 185,650 gallons. The containment provided by the 8-inch high concrete curb and two 50-gallon sumps is 32,676 gallons which is sufficient to hold 110% of the largest container (a 7,660 gallon constructed steel welded box used in the solidification process) or 10% of the total volume of the waste permitted to be stored in the building.</p> <p>Construction of the MFP was completed in November 2009 and it went into operation in July 2010.</p>
<b>HISTORY AND/OR EVIDENCE OF RELEASE(s)</b>	None
<b>RECOMMENDATION</b>	No Further Action
<b>COMMENTS</b>	The operations are conducted in accordance with DEP's solid waste permit 34757-006-SO/30 issued November 18, 2008 and expiring on November 18, 2013. Closure and postclosure of the facility are covered by Part G of the Solid Waste permit.

## Photos of SWMU-7



SWMU-7, Solid Waste Processing Facility. This photograph shows the front entrance, facing west. Photo taken on January 11, 2011 by Stuart Stapleton.

**WASTE MANAGEMENT AREA /AREA OF CONCERN  
DATA SHEET**

<b>WASTE MANAGEMENT AREA/AREA OF CONCERN REFERENCE NUMBER</b>	<b>SWMU-8</b>
<b>NAME</b>	Universal Waste Battery Storage Area
<b>TYPE OF UNIT</b>	Storage
<b>DESCRIPTION OF WASTE MANAGED</b>	Universal Waste Batteries
<b>PHYSICAL DESCRIPTION AND CONDITION</b>	<p>The Universal Waste Battery Storage Area is located in the southeastern portion of the container storage building in Bay 3. This area is covered by a roof and slopes towards the containment trench.</p> <p>Batteries stored in the battery storage area include lead acid, lithium, alkaline, and NiCd. These batteries are sent to AERC for recycling. Alkaline batteries are land filled (Omni Landfill).</p> <p>The Batteries Storage Area began operation in January 2009 and is currently in use.</p>
<b>HISTORY AND/OR EVIDENCE OF RELEASE(s)</b>	None
<b>RECOMMENDATION</b>	No Further Action
<b>COMMENTS</b>	

## Photos of SWMU-8



SWMU-8, Universal Waste Battery Storage Area. This photograph was taken facing east. Photo taken on January 11, 2011 by Stuart Stapleton.

**WASTE MANAGEMENT AREA /AREA OF CONCERN  
DATA SHEET**

<b>WASTE MANAGEMENT AREA/AREA OF CONCERN REFERENCE NUMBER</b>	<b>SWMU-9</b>
<b>NAME</b>	Paint Can Crushing Area
<b>TYPE OF UNIT</b>	Treatment and Storage
<b>DESCRIPTION OF WASTE MANAGED</b>	Solvent-based paints
<b>PHYSICAL DESCRIPTION AND CONDITION</b>	<p>Solvent-based paints are received in one-gallon cans for re-containerization and disposal. The operation takes place in the permitted hazardous waste processing areas. The operation includes the opening of containers, crushing the can in an enclosed unit, collecting the paint waste in a 55-gallon drum and containerizing the paint for off-site transport. The paint can is manually placed in and removed from the unit. EQ uses best management practices such as using plastic sheeting to contain any drippage. Each waste stream is characterized to determine appropriate management.</p> <p>Latex or water based paints are not crushed in this machine.</p> <p>The Paint Can Crushing Area began operations in 1996 and is currently in use.</p>
<b>HISTORY AND/OR EVIDENCE OF RELEASE(s)</b>	None
<b>RECOMMENDATION</b>	No Further Action
<b>COMMENTS</b>	



Photo of SWMU-9



SWMU-9, Paint Can Crushing Area. This photograph was taken facing east/northeast. Photo taken on January 11, 2011 by Stuart Stapleton.



**WASTE MANAGEMENT AREA /AREA OF CONCERN  
DATA SHEET**

<b>WASTE MANAGEMENT AREA/AREA OF CONCERN REFERENCE NUMBER</b>	<b>SWMU-10</b>
<b>NAME</b>	Rolloff Storage ( <i>aka</i> Rolloff Storage Area)
<b>TYPE OF UNIT</b>	Storage
<b>DESCRIPTION OF WASTE MANAGED</b>	Non-hazardous materials
<b>PHYSICAL DESCRIPTION AND CONDITION</b>	<p>The Rolloff Storage Area is also known as the Solid Waste Processing Building. It is used for the storage of roll-off boxes that are full of the solidified material created in the MPF (SWMU-7). The roll-off boxes are staged in this area where they await outbound transportation. The area consists of a 2,288 square foot covered concrete pad and has a capacity of 20,200 gallons.</p> <p>The Rolloff Storage was a pre-existing building and no special construction was needed prior to using it for the roll-off storage. Operation as the Rolloff Storage began in November 2008.</p>
<b>HISTORY AND/OR EVIDENCE OF RELEASE(s)</b>	None
<b>RECOMMENDATION</b>	No Further Action
<b>COMMENTS</b>	The operations are conducted in accordance with DEP's solid waste permit 34757-006-SO/30 issued November 18, 2008 and expiring on November 18, 2013. Closure and postclosure of the facility are covered by Part G of the Solid Waste permit.

Photo of SWMU 10



SWMU-10, Rolloff Storage. This photograph was taken facing east. Photo taken on January 11, 2011 by Stuart Stapleton.

**WASTE MANAGEMENT AREA /AREA OF CONCERN  
DATA SHEET**

<b>WASTE MANAGEMENT AREA/AREA OF CONCERN REFERENCE NUMBER</b>	<b>SWMU-11</b>
<b>NAME</b>	Transfer Facility ( <i>aka</i> Transfer Area/Staging Area)
<b>TYPE OF UNIT</b>	Short-term Storage
<b>DESCRIPTION OF WASTE MANAGED</b>	Hazardous Waste
<b>PHYSICAL DESCRIPTION AND CONDITION</b>	<p>The Transfer Facility is currently located in, and part of, the Container Storage Area (SWMU 1). It is located in Bay 1.</p> <p>EQ is authorized to operate a transfer facility on site in accordance with Rule 62-730.171, F.A.C., and is be authorized to hold manifested hazardous waste on site not to exceed ten (10) days as allowed for transfer facilities. Current regulations allow transfer facility waste to be held anywhere on the paved lot within the facility boundary. The maximum permitted capacity is limited to 20,000 gallons or 100 cubic yards</p> <p>The Transfer Facility began operation in 1990 and is currently in use.</p>
<b>HISTORY AND/OR EVIDENCE OF RELEASE(s)</b>	None
<b>RECOMMENDATION</b>	No Further Action
<b>COMMENTS</b>	EQ's information submitted in the February 10, 2011 Part B updates proposes to move the transfer facility to an area located on the 8 <sup>th</sup> Avenue Property as identified on Figure 5.14.

Photo of SWMU 11



SWMU-11, Transfer Facility. This photograph was taken facing east. Photo taken on April 16, 2011 by Stuart Stapleton.

**WASTE MANAGEMENT AREA /AREA OF CONCERN  
DATA SHEET**

<b>WASTE MANAGEMENT AREA/AREA OF CONCERN REFERENCE NUMBER</b>	<b>SWMU-12</b>
<b>NAME</b>	Used Oil Facility
<b>TYPE OF UNIT</b>	Storage
<b>DESCRIPTION OF WASTE MANAGED</b>	Used Oil, Used Oil Filters
<b>PHYSICAL DESCRIPTION AND CONDITION</b>	<p>The Used Oil Facility is located within, and part of, the Container Storage Area (SWMU 1). It is located in Bay 1.</p> <p>Used oil is received in various size containers and transferred into either 55- gallon drums or 275-gallon tote tanks. Used oil is pumped from these containers on a weekly basis. EQ does not drain oil filters other than during routine vehicle maintenance performed in the vehicle maintenance area. Used oil filter are received in various sized containers and are consolidated into 55-gallon drums.</p> <p>The Used Oil Facility began operation in 1990 and is currently in use.</p>
<b>HISTORY AND/OR EVIDENCE OF RELEASE(s)</b>	None
<b>RECOMMENDATION</b>	No Further Action
<b>COMMENTS</b>	EQ is registered as a used oil transporter, transfer facility, filter transporter and filter transfer facility in accordance with Chapter 62-710, F.A.C. The June 16, 2010 certification expires on June 30, 2011.



Photo of SWMU 12



SWMU-12, Used Oil Facility. This photograph was taken facing west. Photo taken on April 16, 2011 by Stuart Stapleton.

**WASTE MANAGEMENT AREA /AREA OF CONCERN  
DATA SHEET**

<b>WASTE MANAGEMENT AREA/AREA OF CONCERN REFERENCE NUMBER</b>	<b>SWMU-13</b>
<b>NAME</b>	Satellite Accumulation Area
<b>TYPE OF UNIT</b>	Storage
<b>DESCRIPTION OF WASTE MANAGED</b>	Laboratory samples
<b>PHYSICAL DESCRIPTION AND CONDITION</b>	<p>The Satellite Accumulation Area is located in the laboratory located in the Office Building on the 8th Avenue (southern) property. The material collected in the satellite accumulation area includes various types of solvents and debris associated with waste sampling. Accumulated material is transferred to the northern property for further processing.</p> <p>The Satellite Accumulation Area began operation in 2002 and is currently in use.</p>
<b>HISTORY AND/OR EVIDENCE OF RELEASE(s)</b>	None
<b>RECOMMENDATION</b>	No Further Action
<b>COMMENTS</b>	

Photos of SWMU 13



SWMU-13 Satellite Accumulation Area. This photograph was taken facing south. Photo taken on January 11, 2011 by Stuart Stapleton.





SWMU-13 Satellite Accumulation Area. This photograph was taken facing east. Photo taken on January 11, 2011 by Stuart Stapleton.

**WASTE MANAGEMENT AREA /AREA OF CONCERN  
DATA SHEET**

<b>WASTE MANAGEMENT AREA/AREA OF CONCERN REFERENCE NUMBER</b>	<b>SWMU-14</b>
<b>NAME</b>	Parts Washer
<b>TYPE OF UNIT</b>	Treatment and Storage
<b>DESCRIPTION OF WASTE MANAGED</b>	Liquids and sludges from a non-hazardous solvent
<b>PHYSICAL DESCRIPTION AND CONDITION</b>	<p>EQ currently utilizes a Safety Kleen Parts Washer located in the maintenance area of the office building on the 8<sup>th</sup> Avenue property. The washer consists of a metal sink fixed to a 30-gallon drum of part cleaning solution. The solution is pumped from the drum into the sink where the parts are washed and cleaned. The solution is drained back into the drum when the cleaning is completed. The solution is reused until it is no longer useful and at that point it is sent off-site for recycling. The waste solvent is periodically tested.</p> <p>Parts Washers began operation in January 2009 and it is currently in use.</p>
<b>HISTORY AND/OR EVIDENCE OF RELEASE(s)</b>	None
<b>RECOMMENDATION</b>	No Further Action
<b>COMMENTS</b>	

Photo of SWMU 14



SWMU-14 Parts Washer. This photograph was taken facing west. Photo taken on January 11, 2011 by Stuart Stapleton.

**WASTE MANAGEMENT AREA /AREA OF CONCERN  
DATA SHEET**

<b>WASTE MANAGEMENT AREA/AREA OF CONCERN REFERENCE NUMBER</b>	<b>SWMU-15</b>
<b>NAME</b>	Additional Retention Pond
<b>TYPE OF UNIT</b>	Storage
<b>DESCRIPTION OF WASTE MANAGED</b>	Storm water
<b>PHYSICAL DESCRIPTION AND CONDITION</b>	<p>The Additional Retention Pond is located in the northwestern corner of the 8<sup>th</sup> Avenue property. It collects storm water from the roof of the Material Processing Facility (SWMU-7). The retention pond was sized for both the permanent pool volume required and the 1" runoff storage (temporary pool). The pond is unlined.</p> <p>Construction of the retention pond was completed in March 2010 and it became operational in July 2010.</p>
<b>HISTORY AND/OR EVIDENCE OF RELEASE(s)</b>	<p>None. Prior to construction, a shallow well (MW-1) was installed on October 22, 2009 to determine if there were any groundwater impacts from the Helena Chemical Company Superfund Site. The sampling did not detect any measurable concentrations of analytes. Analytes were limited to total xylenes, alpha-BHC, beta-BHC, lindane (gamma-BHC) 4,4'-DDT, aldrin, dieldrin, endosulfan I and endosulfan II.</p>
<b>RECOMMENDATION</b>	Confirmatory Sampling
<b>COMMENTS</b>	



Photo of SWMU 15



SWMU-15 Additional Retention Pond. This photograph was taken facing north. Photo taken on January 11, 2011 by Stuart Stapleton.

**WASTE MANAGEMENT AREA /AREA OF CONCERN  
DATA SHEET**

<b>WASTE MANAGEMENT AREA/AREA OF CONCERN REFERENCE NUMBER</b>	<b>SWMU-16</b>
<b>NAME</b>	Universal Waste Lamp Storage Area
<b>TYPE OF UNIT</b>	Storage
<b>DESCRIPTION OF WASTE MANAGED</b>	Fluorescent lamps
<b>PHYSICAL DESCRIPTION AND CONDITION</b>	<p>Lamps are received from various sources including Conditionally Exempt Small Quantity Generators (CESQG). If Universal waste (UW) is received in containers that show evidence of spillage, leakage or damage that could cause leakage, the material is repacked into structurally sound containers.</p> <p>The Universal Waste Lamp Storage Area is located in the parking area of the northern property. The material is stored in a box van with a storage capacity of 1,104 cubic feet.</p> <p>The Universal Waste Lamp Storage Area began operation in 2002 and is currently in use.</p>
<b>HISTORY AND/OR EVIDENCE OF RELEASE(s)</b>	None
<b>RECOMMENDATION</b>	No Further Action
<b>COMMENTS</b>	EQ is a transporter and a Small Quantity Handler Facility of Universal Waste Lamps and Devices in accordance with Chapter 62-737, F.A.C. EQ's certification was issued March 31, 2011 and it expires on March 1, 2012.



Photo of SWMU 16



SWMU-16 Universal Waste Lamp Storage Area. This photograph was taken facing south/southwest. Photo taken on January 26, 2011 by Stuart Stapleton.

# WASTE MANAGEMENT AREA /AREA OF CONCERN DATA SHEET

<b>WASTE MANAGEMENT AREA/AREA OF CONCERN REFERENCE NUMBER</b>	<b>SWMU-17</b>
<b>NAME</b>	Aerosol Can Crushing ( <i>aka</i> Aerosol Can Recycling)
<b>TYPE OF UNIT</b>	Treatment
<b>DESCRIPTION OF WASTE MANAGED</b>	Solvent-based paint waste, auto products (e.g., carburetor cleaner, engine degreaser, etc.) and personal care products
<b>PHYSICAL DESCRIPTION AND CONDITION</b>	<p>The aerosol can crushing was conducted in a machine that crushed aerosol cans while simultaneously capturing all liquids into a 55-gallon container. Aerosol cans were placed within an enclosed unit and punctured. The material within the can was ejected into the drum. A filter unit was attached to the machine that captured vapors expelled from the can/drum during the recycling operation. This operation was carried out in area 2A of the hazardous waste storage area.</p> <p>The filters were changed out as per the manufacturer's specifications. Spent filters were characterized and managed as solid or hazardous waste.</p> <p>Both Aerosolv and TeeMark crushers have been used. The TeeMark is no longer in operation and a replacement is being considered. Additional details of the crushers are located in Attachment 16 of the Part B renewal dated July 22, 2010.</p> <p>The empty cans were sent off site to a metal recycler. The collected paint was sent off site for fuels blending.</p> <p>The Aerosol Can Crushing units began operation in 2003 but are currently <b><i>not</i></b> in use. This process may be used in the future at some point, and if so, information on the</p>



	particular type of unit will be submitted to the Department.
<b>HISTORY AND/OR EVIDENCE OF RELEASE(s)</b>	None
<b>RECOMMENDATION</b>	No Further Action
<b>COMMENTS</b>	

**WASTE MANAGEMENT AREA /AREA OF CONCERN  
DATA SHEET**

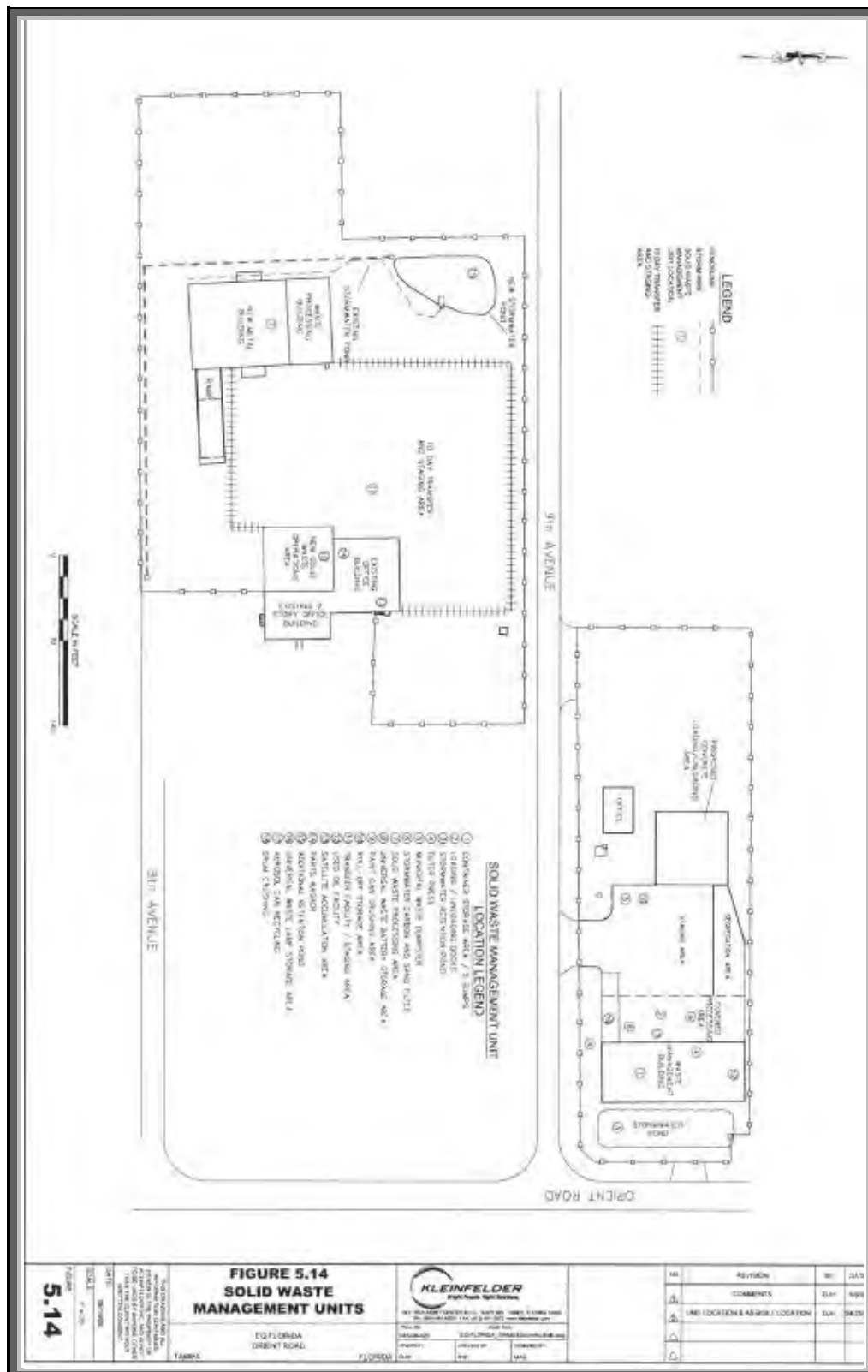
<b>WASTE MANAGEMENT AREA/AREA OF CONCERN REFERENCE NUMBER</b>	<b>SWMU-18</b>
<b>NAME</b>	Drum Crushing
<b>TYPE OF UNIT</b>	Treatment
<b>DESCRIPTION OF WASTE MANAGED</b>	Empty Drums and residues
<b>PHYSICAL DESCRIPTION AND CONDITION</b>	<p>EQ uses a Drumbeaters of America crusher, model # DC5000-10. Additional details of the compactor are located in Attachment 16 of the Part B renewal dated July 22, 2010. The unit is located at the top of the ramp leading into Bay 3.</p> <p>The unit is used to crush drums and other various RCRA empty metal containers. Crushed drums are sent off site to a metal recycler. Rags are no longer being compacted.</p> <p>Crushed drums are sent off site to a metal recycler.</p> <p>The Drum Crushing units began operation in 1996 and is currently in use.</p>
<b>HISTORY AND/OR EVIDENCE OF RELEASE(s)</b>	None
<b>RECOMMENDATION</b>	No Further Action
<b>COMMENTS</b>	

Photo of SWMU 18



SWMU-18 Drum Crushing. This photograph was taken facing west/northwest. Photo taken on January 11, 2011 by Stuart Stapleton.

## 7.0 Figure



## 8.0 Index

### A

acids, 8  
alkaline, 8, 15  
Areas of Concern, 3  
asbestos, 8

### B

Batteries, 15, 16  
biohazardous, 9

### C

Confirmatory  
sampling, 5, 30

### D

DEP, 3, 5, 6, 13, 19  
Drum, 5, 36

### E

EPA, 5  
EQ, 3, 4, 6, 7, 8, 9, 10, 17, 21, 23, 28, 32, 36  
explosive, 9

### F

FDEP, 3, 5, 6  
filters, 8, 23, 34  
flammable, 8

### H

Hazardous Organic Compounds, 8  
HHW, 9  
HOC, 8  
household hazardous waste, 8, 9  
HSWA, 5

### L

Lab pack, 9  
lab packs, 8, 9

### M

Materials Processing Facility, 13  
mercury, 8, 9  
mercury containing lamps and devices, 8, 9  
MPF, 13, 19

### N

NiCd, 15  
No Further Action, 3, 6, 13, 15, 17, 19, 21, 23, 25, 28, 32, 35, 36  
NPL, 8

### O

Operating Permit, 1, 3, 5, 6  
oxidizers, 8

### P

paint, 8, 17, 34  
Part B, 4, 7, 34, 36  
PCB, 8  
poisons, 8

### R

RCRA, 1, 3, 5, 10, 13, 36  
reactive, 8  
Resource Conservation and Recovery Act, 5  
Retention Pond, 3, 30, 31  
RFA, 1, 3, 4, 5, 6, 7, 10

### S

solid waste, 8, 9, 13, 19  
stormwater, 3  
SWMU, 3, 4, 5, 6, 7, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 36, 37

### T

toxic, 8  
transfer facility, 8, 9, 21, 23  
TSCA, 8

### U

US Liquids, 6  
used oil, 8, 9, 23  
USL City Environmental Services, 6  
UW&T, 5, 7

### V

VSI, 5

**Photo of SWMU-7**



SWMU 7 – Waste Processing Building (WPB) - Hazardous Waste Treatment Tank. This photograph shows the hazardous waste treatment tank, facing south west. Photo taken 2014.

**Photo of SWMU-7**



SWMU 7 – WPB – Non-Hazardous Waste Treatment Tank. This photograph shows the hazardous waste treatment tank, facing south. Photo taken 2014.



**Photo of SWMU-7**



SWMU 7 – WPB – Reactives Magazine. This photograph shows the reactives magazine facing west. Photo taken 2016.



**Photo of SWMU-7**



SWMU 7 – WPB – Container Storage Area. This photograph shows the location of the hazardous waste container storage area facing south. Photo taken 2016.

### Photo of SWMU 12



SWMU 12 – Used Oil Facility. The Used Oil Facility is located in Bay 1 of the Container Storage Building (CSB). Used oil is also stored in the north (non-hazardous) side of the WPB. Photo taken 2016.



**Photo of SWMU-19**



SWMU 19 – Proposed location of the Oil-Water Separator. This photograph shows the proposed location of the Oil-Water Separator, facing south. The unit was never installed. Photo taken 2016.

**Photo of SWMU-20a**



SWMU 20a – Location of the Bulk Container Storage Area (BCSA). This photograph shows the BCSA facing north. Photo taken 2016.



**Photo of SWMU-20b**



SWMU 20b – Location of the BCSA. This photograph shows the location of the BCSA facing north. This area was consolidated with SWMU 20d and will no longer be present at the facility. Photo taken 2016.

**Photo of SWMU-20c**



SWMU 20c – Location of the BCSA. This photograph shows the location of the BCSA facing west. Photo taken 2016.



### Photo of SWMU-20d



SWMU 20d updated to SWMU 20b – Location of the BCSA. This photograph shows the location of the BCSA facing west. This area was consolidated with SWMU 20b and renamed accordingly. SWMU 20d designation will no longer be present at the facility. Photo taken 2016.

## **APPENDIX H**

### ***Facility Supplemental Emergency & Safety Equipment***



## **US ECOLOGY TAMPA, INC.**

### **SUPPLEMENTAL EMERGENCY AND SAFETY EQUIPMENT\***

1. Hand-Held Air Horns (5)
2. Telephones (1)
3. Emergency Lights (6)
4. Pull Alarms (7)
5. Fire Extinguishers (20)
6. Emergency Exits (6)
7. Containment Sumps (5)
8. Spill Kits (Acid, Alkaline, Solvent) (1 each)
9. Fire Hoses (4)
10. Safety Equipment Cabinets (2)
11. UV Smoke and Flame Detectors (3)
12. Heat Sensors (4)
13. LEL Sensors (2)
14. LEL Meter (1)
15. SCBA Respirator (2)
16. Eye Washes (3)
17. Safety Shower (3)
18. Sprinkler Systems (2)
19. Foam System (1)
20. Intrusion Alarm System (1)
21. Fire Alarm System (2)
22. CO2 Suppression System (1)

\*Supplemental emergency and safety equipment that may not be specifically referenced in the Facility PPP/CP

## **APPENDIX I**

### ***Equipment Specifications***



**Drumbeaters  
of America Inc.**



Drum Crushers  
Drum Washers  
Drum Washers Crushers  
Tote Washers  
Drum Cleaning Solutions



## Drum Crusher Model# DC5000-10 Electric

The Model DC5000-10 is used to crush unlimited drums. This system will crush a 55 gallon drum down to 4" in height greatly reducing storage space requirements and transport fees.

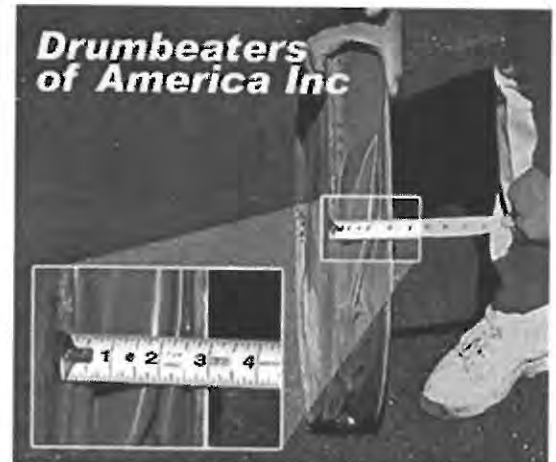
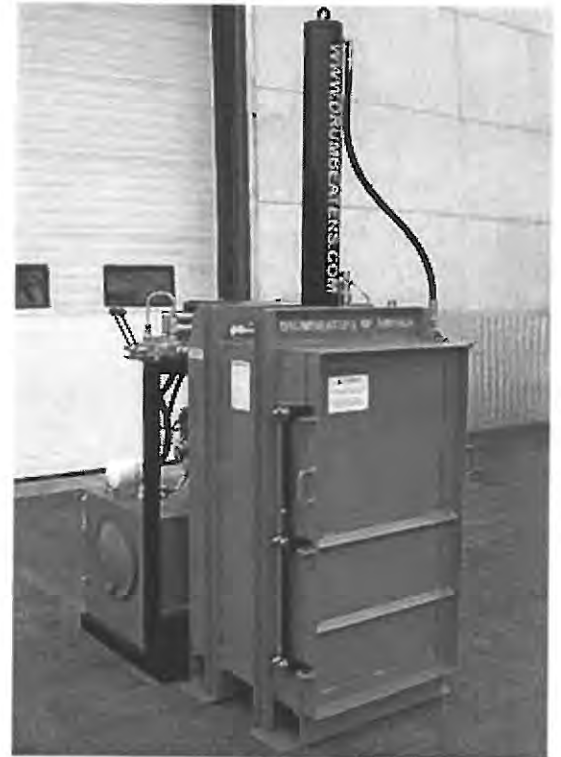
The unit comes complete with fused electrical controls, hydraulic door safety switch, and an oil sight gauge with temperature indicator. Heavy duty construction, all structural components are made with heavy steel plate.

### Standard Features:

- 10hp electric motor
- Compaction force 60,000 pounds at 3000 psi
- Crush 55 gallon steel drum down to 4"
- Cycle time of 35 seconds
- 40 gallon hydraulic tank
- Heavy Duty Steel construction
- Directional Control Valve
- Drum ring locator, keep the drum aligned
- Safety interlocks door, prevent operation while door is open
- Electrical disconnect box
- Portability with Fork Lift Truck
- Electrical control box NEMA- 1
- Safety features to comply with OSHA

### Additional Options:

Explosion Proof System	When you have a hazardous area
Drip Pan for Liquid Containment	Under the crushing chamber to collect any fluids inadvertently not removed prior to crushing the drum
One step control valve	Causes the equipment to go through a full cycle without holding the lever down through the entire crushing cycle



**Shipping dimensions:**

H: 75" W: 40" D: 65" Weight: 2,500 lbs

We sell directly from Elburn IL, USA  
We have worldwide distribution  
We ship to all countries

**Drumbeaters of America Inc.**  
**215 West Nebraska St.**  
**Elburn, IL 60119 USA**

**Jim Popp:**

Phone: (630)365-5527 ext 3006  
Fax: (630)365-9928

**Mary Brown:**

Phone: (630)365-5527 ext 3003  
Fax: (630)365-9928

**General Sales:**

Phone: (630)365-5527 ext 0  
Fax: (630)365-9928

<http://www.drumbeaters.com>





CORPORATION

TEEMARK CORPORATION

*Model PCC1J-X*

*EXPLOSION PROOF ELECTRIC PRODUCTION CAN CRUSHER*

*With Can Ejector Option*

CARE & USE INSTRUCTIONS

SERIAL NO. 10283

DATE MFG. 7/99

HC7 Box 14-T • Aitkin, MN 56431  
218-927-2200 • 800-428-9900 • FAX 218-927-2333

**TEEMark**

# PCC1J PAINT CAN CRUSHER WITH CAN EJECTOR

*Pierces, drains,  
crushes and ejects  
one-gallon cans!*

●●●●●●●●●●

*Typically empty  
by EPA definition.*

●●●●●●●●●●

*No need to  
remove lids from  
one-gallon cans.*

## HYDRAULICS

Equipped with a hydraulic pump  
provides 30,000 pounds of  
crushing force.

## RECYCLE CHECK NOW AVAILABLE!

This option sorts out crushed  
cans that retain too much  
paint for recycling.



## PCC1J AUTOMATICALLY EJECTS CRUSHED CANS & PAILS

One-gallon cans are  
crushed and ejected by  
the PCC1J. Ejection  
system proven on  
millions of cans.

## SAFE, EXPLOSION PROOF

Units will not operate with  
door open. These crushers  
are completely explosion  
proof and are suitable for use  
with solvent based paints and  
other flammable liquids.

## RESULTS!

With no need to remove lids,  
PCC1J crushers can  
process 300 cans per hour.  
Leaving the lids on also  
reduces labor costs and the  
risk of personal injury.

## TEEMark PCC1J SPECIFICATIONS

**CRUSHING FORCE:** 30,000 pounds

**CRUSHING CHAMBER:** one gallon

**CYCLE TIME:** 10 seconds or less

### POWER SYSTEM ALTERNATIVES:

- 1-1/2 hp\* 115/230V 1 Ph 20/10A w/starter, 10 sec cycle
- 3 hp\* 208-230/460V 3ph 11-10/5A w/o starter, 6 sec cycle

\*Explosion Proof Class 1, Group D

- 1-1/2 hp 80 psi Air @ 40 SCFM, 10 sec cycle

**EJECTION SYSTEM:** Requires 80 psi air from 1/4 inch air  
line or a one-horse compressor

**DIMENSIONS:** 37" w x 37" d x 90" h

**CLEARANCE UNDER STAND:** 41"

**APPROXIMATE SHIPPING WEIGHT:** 1160 lbs.

**WARRANTY:** 1 year on all materials and workmanship

*From 1 to 110 gallons, TeeMark Crushers help prepare containers and their contents for recycling or disposal.*

TeeMark Corporation • Aitkin, MN 56431 • 1-800-428-9900 • FAX 218-927-2333 • e-mail [teemark@aitkin.com](mailto:teemark@aitkin.com)  
Crusher Homepage: [www.aitkin.com/teemark](http://www.aitkin.com/teemark)

# EXPLOSION PROOF ELECTRIC PRODUCTION CAN CRUSHER

## Model PCC1J-X With Can Ejector Option

### INITIAL START UP

Congratulations on choosing a **TeeMark PCC1J-X Production One Gallon Can Crusher**. Your crusher has been thoroughly tested before leaving the factory.

### **ASSEMBLY**

Follow the instructions on the assembly diagram to mount the crusher, drip pan, and stand. The crusher can be lifted by the lifting eye on the top of the cylinder. It weighs about 900 pounds.

The assembled unit is somewhat top heavy so we recommend that the stand legs be properly anchored to the floor using 3/8" anchor bolts. There is enough clearance under the stand for a 55 gallon drum on a standard 2 inch roller conveyor or drum dolly.

### **ELECTRICAL CONNECTION**

The explosion proof motor, motor controls, and connections on your PCC1X-J are UL listed and CSA certified for Class 1, Group D, Hazardous locations. Forty feet of rubber electrical cord is supplied without an end connector. It is up to the purchaser to install the equipment to comply with the appropriate local and national electrical codes.

The motor is 1-1/2 hp, 115/230 VAC 16/8 FLA single phase. Thermal protection is built into the motor and resets automatically.

#### **\*\*\* CAUTION \*\*\***

THE MOTOR HAS AUTOMATIC THERMAL PROTECTION.  
AFTER A TRIP IT WILL RESTART WITHOUT WARNING.  
**DO NOT PERFORM MAINTENANCE WITH THE POWER ON.**

The motor is connected for use with 115 volts from the factory unless arrangements were made prior to shipping. A minimum 20 amp service should be used to avoid nuisance tripping of the circuit breaker.

See wiring diagram for conversion to 230 VAC.

## **INITIAL START UP - continued**

### **HYDRAULIC FLUID**

The hydraulic reservoir should be kept full to within 1 inch of the top of the tank when the ram is fully raised. Use a premium grade antiwear hydraulic oil, 150 viscosity grade 32 (e.g. Mobile #DTE24 or equal). This is the same antiwear hydraulic fluid that is typically used in farm tractors and dump trucks. It should be available in auto supply stores. Total fluid capacity is 3-1/2 gallons. Oil should be at a level that is visible in the temperature sight gauge throughout the complete ram cycle.

### **OIL FILTER**

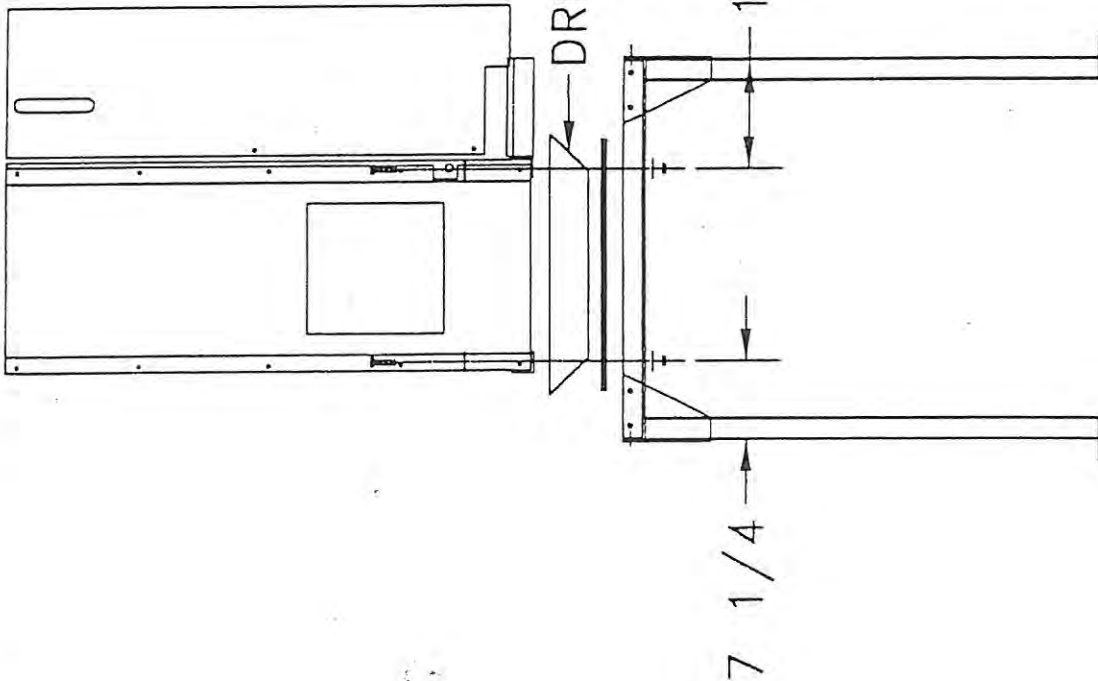
A standard 20 GPM 10 micron cellulose oil filter is used to filter the hydraulic oil. It should be changed after the first 100 hours of operation or 2 months, whichever comes first, then every 500 hours of operation thereafter.

### **VALVE SETTINGS**

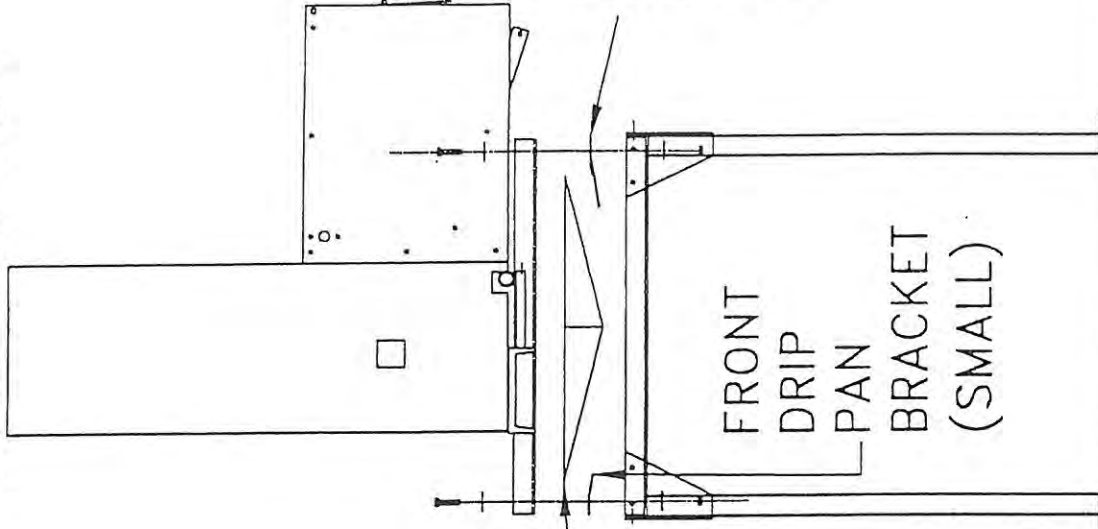
The pressure relief valve and squeeze (detent) pressure have been preset at the factory for optimum performance. **DO NOT INCREASE THESE SETTINGS** as this will exceed the capacity of the equipment and cause damage. Lowering the squeeze valve detent pressure below the factory setting of 3000 psi is permissible. See **DETENT ADJUSTMENT** instructions.



# FRONT VIEW



# RIGHT SIDE VIEW



ITEM	QTY	DESCRIPTION	ITEM	QTY	DESCRIPTION
TOLERANCES UNLESS OTHERWISE SPECIFIED:			CUSTOMER ASSEMBLY		
DIM'S ARE IN INCHES			PCC1-J		
FRACTIONAL ±1/32			DATE 9/11/97		
1 PLC. DEC. ±.015			TEEMARK		
2 PLC. DEC. ±.010			TeemMark Corp		
3 PLC. DEC. ±.005			CAD. REF. C028-085		
ANGULAR ±1°			PART NO. C028-085		
AITKIN MINNESOTA 56431 218-927-2200					
REV			DESCRIPTION		
AUTH			DATE		

## **OPERATING INSTRUCTIONS**

### **ONE GALLON CAN CRUSHING**

Pull the **"STOP"** button to start the motor of the PCC1X Production Can Crusher. As a safety feature, the hydraulic power will not run when the door is open.

#### **\*\*\* CAUTION \*\*\***

ALWAYS TURN THE POWER OFF WHEN SERVICING  
THE CRUSHER OR WHEN NOT IN USE.

Place an open topped 55 gallon drum or other container under the crusher to collect the liquid extracted from the cans. There is enough clearance to position the drum on a 2 inch roller conveyor.

Place the can to be crushed into the crushing chamber until it contacts both locating stop pins. This centers the can for proper piercing and crushing.

Swing the door shut and pull the two hydraulic valve handles toward you until they reach the detent position and lock in place. The crushing cycle will begin. The PCC1 has two piercers that slit the sidewall of the can as it is crushed.

At the bottom of the stroke the ram automatically stops and returns to the up position. If the door is opened at any time during the cycle, the ram will stop. The ram can be manually retracted by throwing the left valve handle to the neutral position.

If the valve handles are not returning automatically or if they return too soon, see the **DETENT ADJUSTMENT** instructions.

### **SMALLER CANS**

Cans smaller than one gallon may also be crushed in the PCC1 but they will not be pierced. To crush smaller cans, place the can in the center of the chamber and proceed as above. Since small cans are not pierced they may rupture with a popping sound. The cabinet is designed to contain the spray when this happens.

### **CANS WITH SEMI-SOLID CONTENTS**

The PCC1 is designed to handle the nastiest of contents. All but the driest, hardest material will be squeezed from the can.

### **PIERCER SHARPENING AND ADJUSTMENT**

Each piercer is attached with two bolts. They can be removed and sharpened with a power grinder or sander.

## **CAN EJECTOR OPTION**

**INTRODUCTION** - The Can Ejector option on the PCC1J-X is an air powered system that interlocks with the operating system of the crusher. The primary features of the ejector are a pneumatic cylinder, a can "tossler", and a door in the rear of the unit that opens to allow the crushed can to be ejected. Compressed air is used to dislodge the can from the ram after crushing is completed. This blast of air prevents the can from sticking to the crusher face.

**AIR REQUIREMENTS** - Electric PCC1 units with the ejector option need a ¼ inch air line for the ejector. Air volume requirements are minimal and can be provided by a ¾ hp compressor. The air line should be equipped with a dryer and oiler that is set to provide one drop of oil every ten crusher operating cycles.

**OPERATION** - The ejector must be connected to a supply of compressed air and the air valve must be opened to provide power to the ejector air cylinder.

If a can is not crushed completely, or gets hung up inside the machine, the operator may need to remove the can by hand. Air pressure to the ejector system is cut off and vented when the operator opens the main door of the crusher. With the main door open, the ejector arm and the ejector door at the rear of the crusher can easily be moved by hand to free a stuck can.

**SMALLER CONTAINERS** - The ejector is designed for one gallon cans. The crusher is also very effective on smaller cans and oil filters but the ejector should be turned off when they are crushed. When crushing of small containers is finished, the ejector air supply should be turned back on and the crusher should be cycled 2 or 3 times to clear wet paint from the air jet holes in the crusher face.

### **\*\*\* CAUTION \*\*\***

KEEP HANDS FREE OF THE CRUSHING CHAMBER AND  
REAR EJECTION CHUTE WHENEVER THE MACHINE IS CYCLING.

In the event of a jam or malfunction, be certain all power is off before clearing.

THE PROTECTIVE SHIELD ON THE EJECTION CHUTE MUST BE IN PLACE  
WHEN THE CRUSHER IS OPERATING.

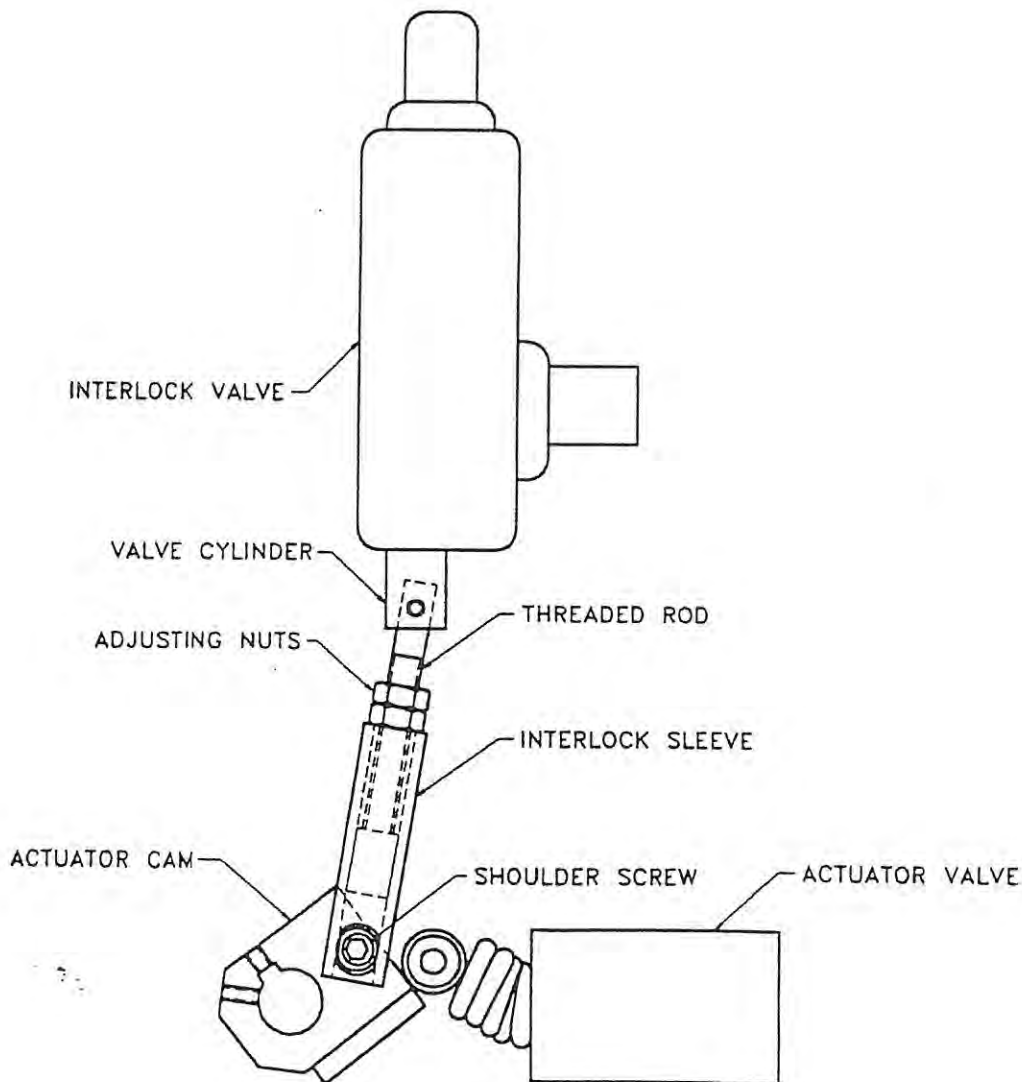
DO NOT RAISE THE SHIELD OR LOOK INTO THE EJECTION CHUTE  
WHEN THE CRUSHER IS OPERATING.

Cans are ejected from the crusher with considerable force and speed.

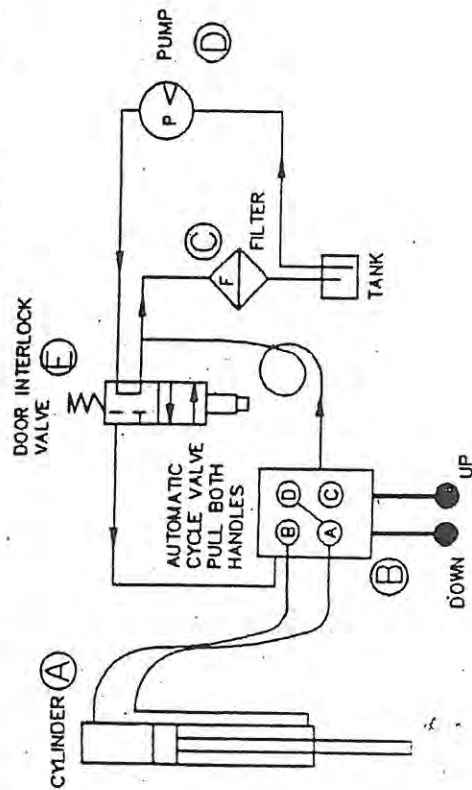
## DOOR INTERLOCK VALVE AND LINKAGE

The safety door interlock valve is a hydraulic valve installed so the crusher cannot operate when the door is open. This interlock valve is adjusted at the factory. This valve can come out of adjustment after a lot of use. If this valve comes out of adjustment then your crusher will not cycle.

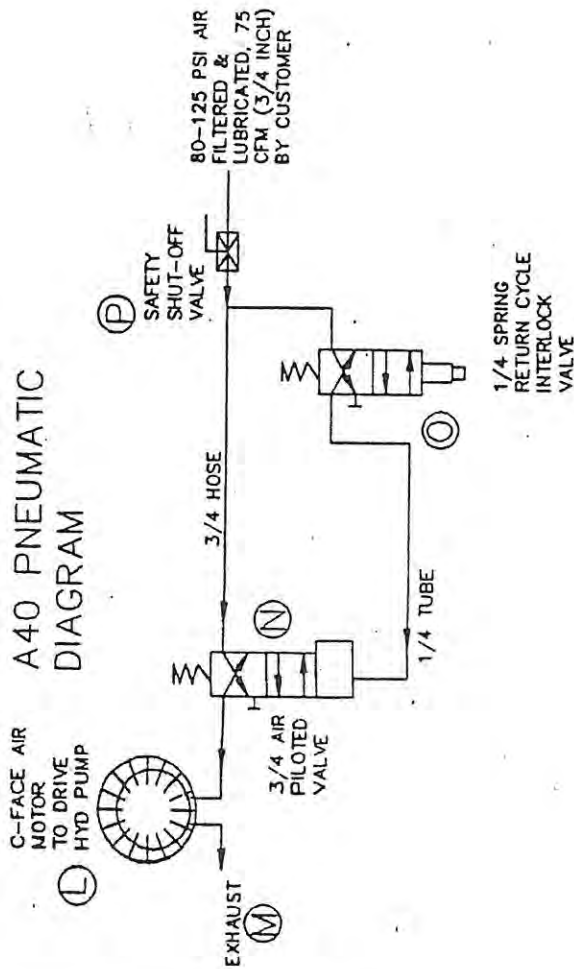
To adjust the door interlock valve you must adjust the door interlock linkage. You adjust the linkage with the two adjustable nuts on the threaded rod. (See drawing below.) Use two 9/16" wrenches to break the nuts apart. Now adjust the adjusting nuts down so when you close the door the valve cylinder moves up a 1/4". The valve cylinder is the silver part connected to the top of the threaded rod. Start the machine and try cycling it. If the machine cycles tighten the nuts together. If the machine doesn't cycle move the bottom nut down 2-3 turns and try cycling it again. If the machine still won't cycle call TeeMark at 800-428-9900 for help.



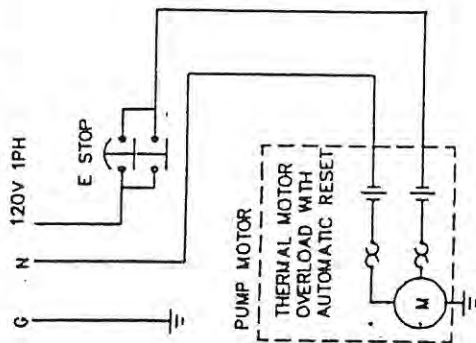
HYDRAULIC POWER SUPPLY  
WITH HYDRAULIC DOOR INTERLOCK VALVE



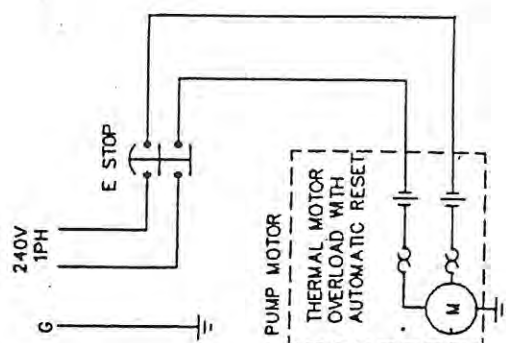
# A40 PNEUMATIC DIAGRAM



1 PH ELECTRICAL DIAGRAM  
CLASS 1 GROUP D EXPLOSION PROOF



**NOTE:**  
THE MOTOR IS WIRED  
FOR 120V FROM THE  
FACTORY UNLESS  
NOTED OTHERWISE.  
MOTOR WIRING MUST  
BE CHANGED TO RUN  
ON 240VAC 1 PH



**NOTE:**  
THE MOTOR IS WIRED  
FOR 120V FROM THE  
FACTORY UNLESS  
NOTED OTHERWISE.  
MOTOR WIRING MUST  
BE CHANGED PER  
MOTOR PLATE AND AS  
SHOWN FOR 240VAC OPERATION.



# TEEMARK CORPORATION

## WARRANTY

TeeMark manufactured products are warranted free of original defects in material and workmanship for a period of one year from the date of shipment to first user.

TeeMark's obligation is to repair or replace free of charge any part that its inspection shows to be defective. Except as it may otherwise specifically agree in writing, TeeMark shall not be liable for transportation, labor or other charges for adjustments, repairs, replacement parts, or other work which may be done upon or in connection with such products. TeeMark shall not be liable for loss of time, manufacturing costs, removal and installation costs, loss of profits, consequential damages, direct or indirect, because of defective products, whether due to rights arising under the contract of sale or independently thereof, and whether or not such claim is based on contract, tort or warranty.

Written permission for any warranty claim repair or return must be first obtained from authorized TeeMark personnel. Any part or parts of a product to be repaired or replaced under this warranty must be returned to the factory f.o.b.

Any modification to any TeeMark product without TeeMark's prior approval and consent, is at the user's sole risk and responsibility. TeeMark disclaims any and all liability, obligation, or responsibility for the modified product and for any claims, demands, or causes of action for damage or for personal injuries resulting from the modification and/or use of such a modified TeeMark product.

THIS WARRANTY IS EXPRESSLY MADE IN LIEU OF ALL OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

(This warranty voids all previous issues.)  
(Effective Date: January 1, 1996)



# DRUM CRUSHERS, WASTE COMPACTORS

*Disposal of one drum of hazardous waste can cost up to \$1,000!*

*Compaction can reduce disposal volume and cost by 30-80%.*



TeeMark manufactures a variety of drum crushers and drum packer/crushers. Our packer/crushers use up to 150,000 pounds of adjustable hydraulic force to crush drums as large as 110 gallons. They also pack waste material into drums. Special waste management features and/or options on these units include:

## **DRUM HOLD DOWN**

Holds drum in place while compaction head is withdrawn from drum.

## **COMPACTION HEAD**

Reaches into drum, forcing materials to the bottom.

## **REMOVABLE PALLET**

Fork lift pockets in pallet allow easy handling of full drums.

## **LOCKABLE DOOR CHUTE**

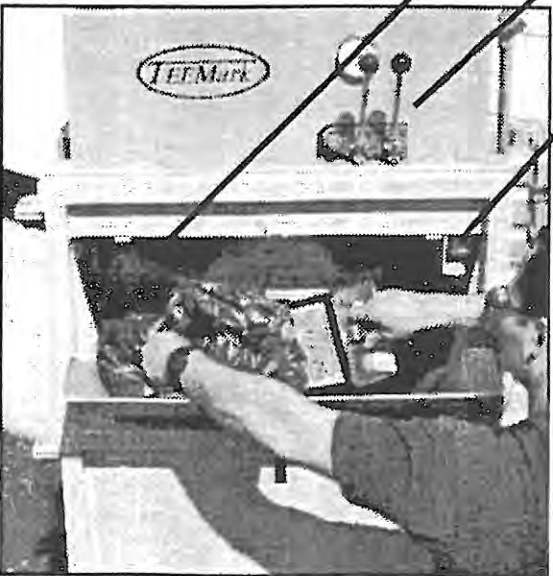
Allows material to be added to the collection drum without opening main door.

## **EXPLOSION-PROOF CONTROLS**

Explosion-proof controls are standard and explosion-proof motors and motor controls are available.

## **INTERLOCK SAFETY**

Door chute and main door are both equipped with safety interlocks. Unit will not operate while either door is open.



With the easily-attached crushing head in place, and up to 150,000 pounds of crushing force, these units can turn those drum liabilities into assets. Clean crushed drums are recyclable, and are a valuable commodity in the scrap market.

For more information, call us:

**TOLL FREE 800/428-9900**



**CORPORATION**

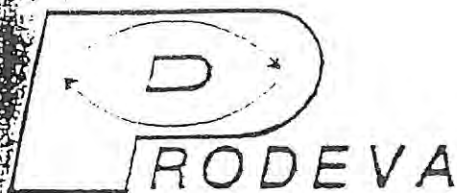
Aitkin, Minnesota 56431

1-800/428-9900

home page: <http://aitkin.com/teemark>

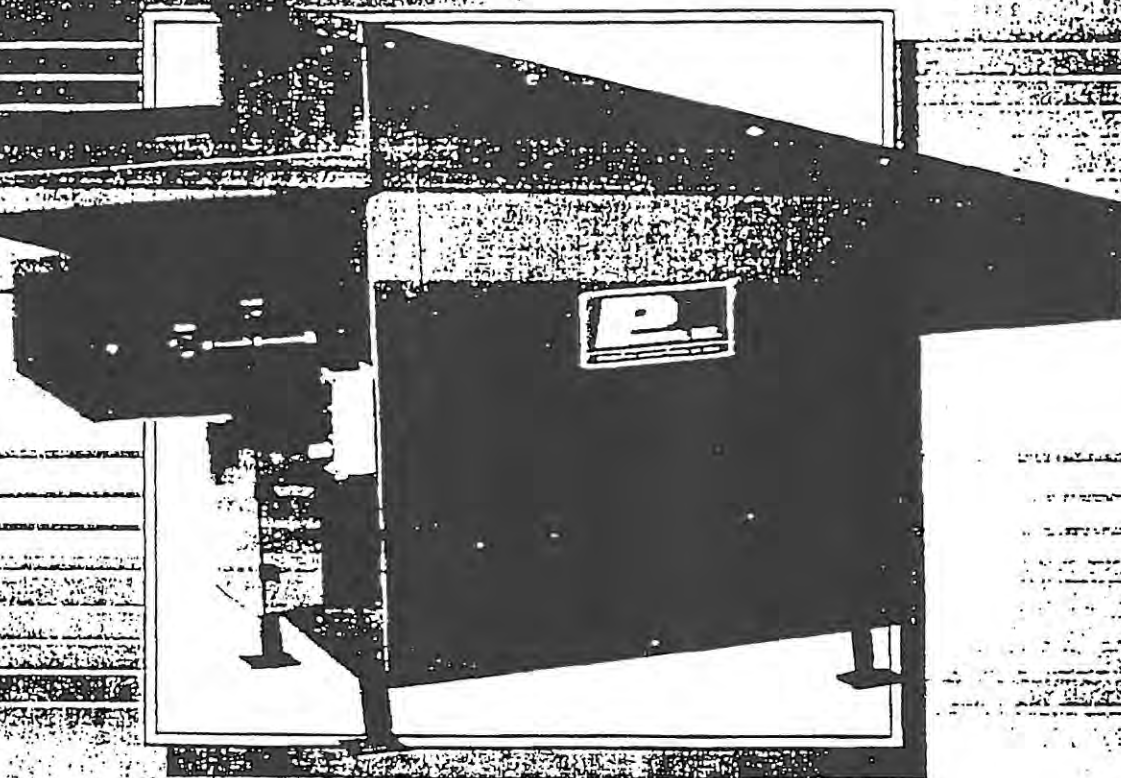
FAX 218/927-2333 • e-mail: [teemark@aitkin.com](mailto:teemark@aitkin.com)

From half pints to 110 gallons, TeeMark Crushers help prepare containers and their contents for recycling or disposal. See other side for **can crushing** information.



# CAN & GLASS CRUSHER

MODEL 270



► **Rated capacities of Model 270:**

- 2500 lbs. of Aluminum cans per hour
- 5000 lbs. of Steel cans per hour
- 15 tons of Glass per hour

► **Safety engineered throughout.**

► **Factory direct parts and service.**

► **Overload compression springs to prevent jamming.**

► **Model 270 will crush cans and glass up to and including 5 gallon kegs.**

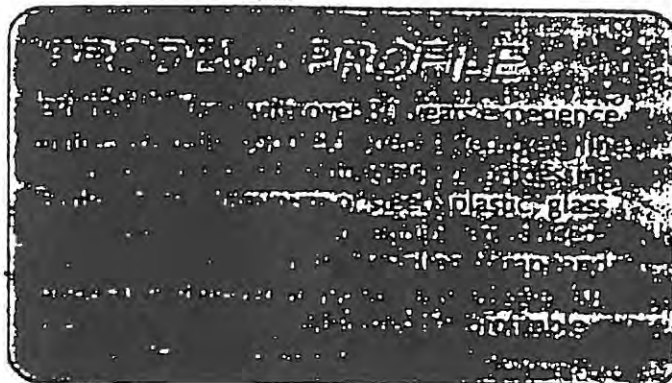
A proven PRODEVA performer in our line for over 34 years. Unit is ideal for can manufacturers, recycling centers, bottlers and breweries. In fact anywhere glass containers, beverage cans or food containers are a problem. Model 270 is user friendly; easy to maintain and requires no change in machine set-up to crush cans or glass. Built for hard use and trouble-free operation with minimal maintenance or up-keep. Backed by PRODEVA's proven experience in manufacturing quality size-reduction equipment.

**P**RODEVA

# Pusher MODEL 270

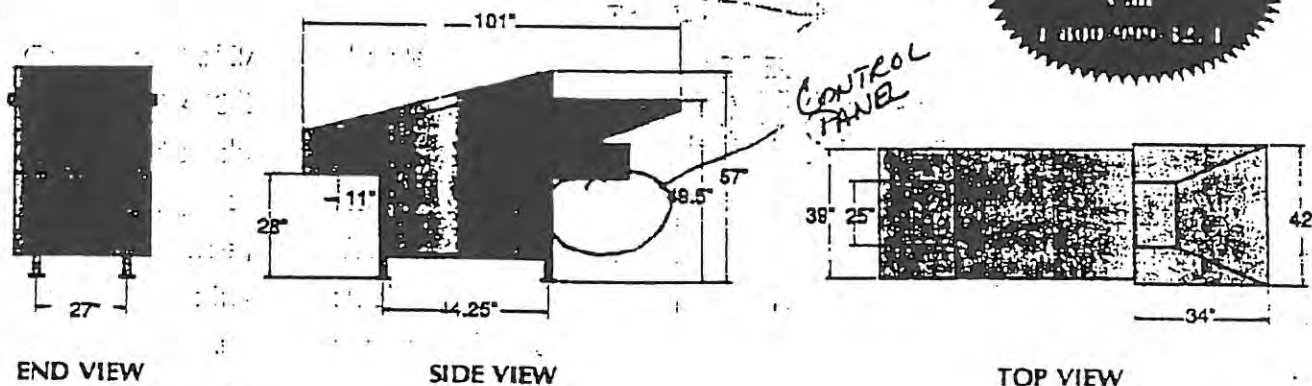
CONTROL  
PANEL

MODEL  
**270**



- ▶ Constructed of 3/8" steel plate
- ▶ 10 HP 230/460/60/3
- ▶ Infeed and discharge conveyors are available
- ▶ All moving parts enclosed
- ▶ Removable side panels for easy maintenance
- ▶ Crushes glass into recyclable cullet
- ▶ Flattens cans, and crushes plastic bottles
- ▶ Available with casters
- ▶ Available with blowers for aluminum and bi-metal cans

## STANDARD SPECIFICATIONS



Overnight  
Parts Service  
Call  
1-800-999-3271

## 1 Year Written Warranty

All Prodeva brand equipment carries a warranty on workmanship and materials, provided equipment is used for its intended use and maintained properly.

We reserve the right to repair or replace parts at our option. Ask for further details. Prodeva, Inc., also reserves the right to improve or alter products without prior notice.

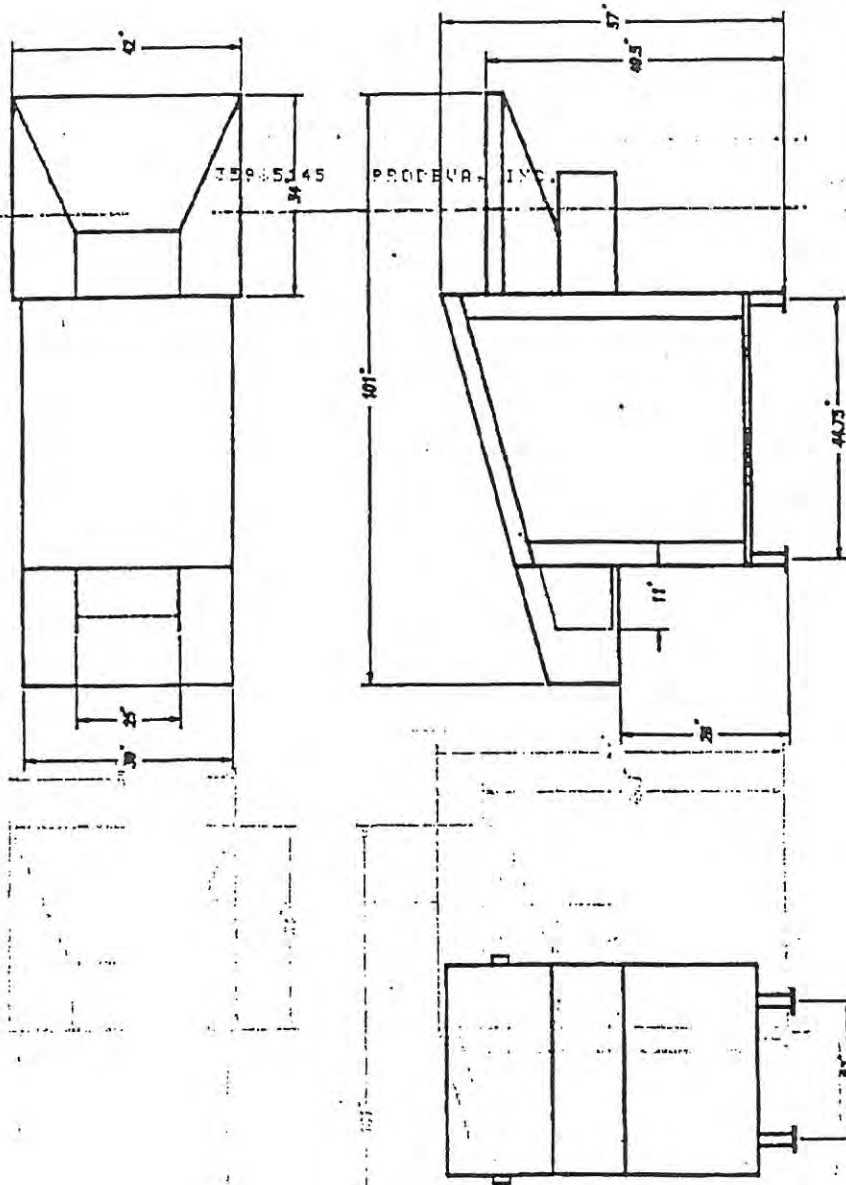
**Call Prodeva for help or further information.**

Should you have any questions about the above Model's operating features and its suitability for your needs.



100 Jerry Drive, Jackson Center, Ohio 45334  
Phones: 1-800-999-3271 FAX 513-596-5145  
513-596-6713





DRAWER #		100 JERRY DRIVE
JACKSON CENTER, OHIO 45334		
ROBEA, INC.		
270 DIMENSIONS		
DATE 11-18-91		
BY SL		
20		
270		

## MANUAL OF INSTRUCTIONS FOR MODELS 250 & 270 PRODEVA CRUSHERS

"Prodeva" Model 250 or 270 Crusher has been thoroughly tested to the rigidification of all "Prodeva" products. By following these simple instructions, you will have a trouble free unit for many years to come.

### ELECTRICAL:

Make the electrical connections to the magnetic starter with the proper sized wire for the full load current of the motor. Be sure the voltage supplied to the machine is the same voltage that is indicated on the nameplate. If the conveyor runs backward, when the Forward button is depressed, reverse any two leads in the starter.

### ADJUSTABLE RESTRICTOR:

Set the opening above the conveyor (on the hopper end) high enough to permit an even flow of material through the crushing area of the machine. Too much material going through the machine at one time will jam the unit.

### ADJUSTABLE CRUSHER PLATE:

All Model 250's & 270's are equipped with an adjustable crusher plate. This new feature permits you to set the discharge opening to the desired height. To adjust the discharge opening remove the bolts that hold the shaft to the crusher plate and add shims for less opening. Do not flatten material any more than necessary, as this puts an undue load on the machine.

### CONVEYOR CLUTCH:

The conveyor clutch located at the discharge end of the conveyor should be tightened just tight enough to carry the load through the machine. The conveyor chain MUST BE ABLE TO STOP WHEN UNDER LOAD, and the crusher plate is in the down position. This means there will be intermittent stop-start of the conveyor chain when the clutch has the proper tension.

### CONVEYOR CHAIN:

The conveyor chain should have approximately 1-1/2" of SAG on the bottom side. To adjust the conveyor, loosen the lock nut on the adjusting screw on the conveyor take-up unit. The take-up units are located at the hopper end of the crusher.

### MAINTENANCE:

Remove the side covers of the machine and grease the bearings at least once a month. The bearings in the drive arms should be greased at least every ten (10) hours. The oil in the Gear Reducer should be changed every six (6) to eight (8) months or (2500) operational hours. Fill with SAE 140 Gear Oil.

### OVERLOAD PROTECTION:

When the machine is overloaded or jammed the motor will automatically shut off. The motor and controls are protected by Thermal Overload Heater Coils, located in the Magnetic Starter. In the event the motor does shut off, correct the cause of the overload and wait a few minutes until the starter has cooled, then the starter can be re-set by depressing the reset button located in the cover of the Magnetic Control.



ING:

When liquids are to be run through the crusher, leveling bolts should be used. The hopper end of the crusher should be slightly higher than the discharge end to insure proper drainage of the liquid.

CTIVE HINGED COVER:

When crushing glass, filled cans and aerosols, the hinged cover located at the discharge end of the crusher MUST be in the closed or down position for protection against splashing of liquids and flying fragments of glass.

ING:

When crushing cans or bottles with the contents the crusher should be cleaned at the end of the day with hot water, steam or a commercial solvent. The crusher chamber is sealed so that the machine can be cleaned in this manner. Care should be taken - DO NOT DIRECT A WATER SPRAY AT THE ELECTRICAL CONTROLS!

NG:

No solid material such as blocks of wood, iron bars, etc., should be fed into the crusher. This may cause damage to the crusher.

# PPG 888 (AMERCOAT® 888) ANTI-SKID ADDITIVE

## DESCRIPTION

Aluminum oxide non-skid aggregate

## PRINCIPAL CHARACTERISTICS

- Hard aluminum oxide aggregate with excellent abrasion resistance
- Suitable for marine and offshore for main decks, helidecks, walkways and other areas with heavy traffic
- Suitable for use in combination with flooring products
- Provides a heavy non-skid surface
- Blend of 16 and 36 mesh aluminum oxide (average 24 mesh - 0.7 mm)

## COLOR AND GLOSS LEVEL

- Aluminum gray

## BASIC DATA

Data for mixed product	
Number of components	One
Shelf life	At least 60 months when stored cool and dry

## INSTRUCTIONS FOR USE

- Add to mixed units of AMERLOCK 2/400GF or broadcast into the applied film
- Add slowly to products under mechanical agitation
- Mix frequently to avoid settling
- Apply with a mastic spray gun or a short nap roller
- Alternatively, sprinkle (openly or fully) into wet film of the epoxy or flooring product
- A layer of sealer or more durable topcoat can be applied on top of the anti-skid layer for a better aesthetic appearance and a more moderate profile
- Refer to the PDS of the specific flooring product for more detailed information on application

## WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.

## REFERENCES

- |                                      |                   |      |
|--------------------------------------|-------------------|------|
| • CONVERSION TABLES                  | INFORMATION SHEET | 1410 |
| • EXPLANATION TO PRODUCT DATA SHEETS | INFORMATION SHEET | 1411 |



# PPG 888 (AMERCOAT® 888) ANTI-SKID ADDITIVE

## WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

---

## LIMITATIONS OF LIABILITY

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT. The information in this sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. PPG may modify the information contained herein at any time as a result of practical experience and continuous product development. All recommendations or suggestions relating to the use of the PPG product, whether in technical documentation, or in response to a specific inquiry, or otherwise, are based on data, which to the best of PPG's knowledge, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk. PPG has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. This sheet supersedes all previous versions and it is the Buyer's responsibility to ensure that this information is current prior to using the product. Current sheets for all PPG Protective & Marine Coatings Products are maintained at [www.ppgpmc.com](http://www.ppgpmc.com). The English text of this sheet shall prevail over any translation thereof.

The PPG logo, and all other PPG marks are property of the PPG group of companies. All other third-party marks are property of their respective owners.



# AMERLOCK® SEALER

## DESCRIPTION

Two-component, penetrating epoxy primer sealer

## PRINCIPAL CHARACTERISTICS

- Solvent-free
- Compatible with damp surfaces
- Wicking action penetrates rusted steel and concrete surfaces
- Surface tolerant for applications where abrasive blasting is not an option
- Accepts broad range of topcoats
- Excellent tie coat for many existing coatings

## COLOR AND GLOSS LEVEL

- Clear
- Gloss

Note: Epoxies will characteristically chalk and fade with exposure to sunlight. Light colors are prone to ambering

## BASIC DATA AT 68°F (20°C)

Data for mixed product	
Number of components	Two
Mass density	Base/hardener: 1.1 kg/l (9.0 lb/US gal)
Volume solids	100%
VOC (Supplied)	max. 0.9 lb/US gal (approx. 109 g/l)
Temperature resistance (Continuous)	To 200°F (93°C)
Temperature resistance (Intermittent)	To 250°F (121°C)
Recommended dry film thickness	1.0 - 2.0 mils (25 - 50 µm) depending on system
Theoretical spreading rate	1604 ft²/US gal for 1.0 mils (40.0 m²/l for 25 µm)
Shelf life	Base: at least 36 months when stored cool and dry Hardener: at least 36 months when stored cool and dry

### Notes:

- See ADDITIONAL DATA – Overcoating intervals
- See ADDITIONAL DATA – Curing time
- Color will drift at elevated temperatures
- Intermittent temperature resistance should be less than 5% of the time, and maximum 24 hours



# AMERLOCK® SEALER

## RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Coating performance is, in general, proportional to the degree of surface preparation
- Use of this product provides a viable options for coating projects where abrasive blasting is not possible, but it is not a performance substitute for abrasive blasting in many circumstances

---

### Steel

- Remove all rust, dirt, moisture, grease or other contaminants from the surface
- Power tool clean in accordance with SSPC SP-3 or hand tool clean to SSPC SP-2 requirements. Alternately, abrasive blast to SSPC SP-7 requirements. Abrasive blasting to SSPC SP-6 or better is also allowable and will give the best possible system performance
- This product may be applied over waterjetted surfaces as well

---

### Aluminum

- Remove all rust, dirt, moisture, grease or other contaminants from the surface
- Treat with conversion coatings or phosphatizing agents. Applicable over surface treatments such as MIL-C-5541. Alternately, lightly abrasive blast with fine abrasive to produce a uniform and dense anchor profile of 1.0 – 3.0 mils (25 – 75 µm) in accordance with SSPC SP-16.

---

### Galvanizing

- Remove oil or soap film with detergent or emulsion cleaner, then use a phosphatizing conversion coating
- Alternately, power tool clean to uniformly abrade the surface or lightly abrasive blast with a fine abrasive to produce a uniform and dense anchor profile of 1.0 – 3.0 mils (25 – 75 µm)
- Galvanizing that has had at least 12 months of exterior weathering may be coated after power washing to remove all contaminants and white rust
- Galvanized surfaces that have been passivated with a chromate treatment must be abrasive blasted. Coatings may not adhere to chromate sealed galvanizing if the chromates are not completely removed.

---

### Concrete

- Existing Concrete – Water cured concrete or existing structures must be cured for a minimum of 14 days and have attained 80 percent of its final strength. When cured, the surface must be either prepared per ASTM D 4259 or ASTM D 4260 with muriatic acid using equal parts of acid to water by volume. Surface should be free of any oil, grease, embedded chemicals, laitance, water repellants, previous sealants, form release compounds, and effluorescence. The surface should be checked for moisture transmission in accordance with ASTM F1869 (calcium chloride test) or by ASTM D4253 (plastic sheet test). The maximum recommended moisture transmission rate is 3 lbs / 1,000 ft<sup>2</sup> / 24 hours
  - A suitably finished surface must have a uniform surface texture exposing fine aggregate resembling coarse sandpaper. If required, repeat acid etching or abrasive blasting until the surface texture is uniform
  - Concrete surfaces cured with conventional curing compounds or contaminated with form oils must be completely cleaned by ASTM D4259. Acid etching is not acceptable as it will not normally remove these compounds
-



# AMERLOCK® SEALER

## Substrate temperature and application conditions

- Surface temperature during application should be between 40°F (4°C) and 120°F (49°C)
- Surface temperature during application should be at least 5°F (3°C) above dew point
- Ambient temperature during application and curing should be between 40°F (4°C) and 120°F (49°C)

---

## SYSTEM SPECIFICATION

- Primers: Direct to substrate
- Topcoats: AMERCOAT 100A, NOVAGUARD 840, PSX 758, AMERCOAT 450 Series Polyurethanes, AMERSHIELD, PSX 700, AMERCOAT 229T, AMERCOAT Epoxies, AMERLOCK Epoxies, PITTGUARD Epoxies

---

## INSTRUCTIONS FOR USE

### Mixing ratio by volume: base to hardener 50:50 (1:1)

- Add hardener to base and agitate with a power mixer for 1 to 2 minutes until completely mixed

---

### Induction time

Mixed product induction time	
Mixed product temperature	Induction time
40°F (4°C)	15 minutes
50°F (10°C)	15 minutes

---

### Pot life

1 hour at 70°F (21°C)

Note: See ADDITIONAL DATA – Pot life

---

### Application

- Area should be sheltered from airborne particulates and pollutants
- Avoid combustion gases or other sources of carbon dioxide that may promote amine blush and ambering of light colors
- Ensure good ventilation during application and curing
- Provide shelter to prevent wind from affecting spray patterns

### Material temperature

Material temperature during application should be between 40°F (4°C) and 90°F (32°C)

---



# AMERLOCK® SEALER

---

**Air spray**

- Use standard conventional equipment
- Separate air and fluid pressure regulators and a moisture and oil trap in the main air supply line are recommended.

**Recommended thinner**

THINNER 21-06 (AMERCOAT 65) (xylene)), THINNER 21-25 (AMERCOAT 101) (recommended for > 90°F (32°C))

**Volume of thinner**

0 - 20%

**Nozzle orifice**

Approx. 0.070 in (1.8 mm)

---

**Airless spray**

- 30:1 pump or larger

**Recommended thinner**

THINNER 21-06 (AMERCOAT 65) (xylene)), THINNER 21-25 (AMERCOAT 101) (recommended for > 90°F (32°C))

**Volume of thinner**

0 - 5%, depending on required thickness and application conditions

**Nozzle orifice**

0.013 - 0.015 in (approx. 0.33 - 0.38 mm)

---

**Brush/roller**

- Use a high quality natural bristle brush and/or solvent resistant, 1/4" nap roller. Ensure brush/roller is well loaded to avoid air entrainment. Multiple coats may be necessary to achieve adequate film-build

**Recommended thinner**

AMERCOAT 65 (Xylene) AMERCOAT 101 (recommended for >90°F (32°C))

**Volume of thinner**

Up to 5% THINNER can be added if desired

---

**Cleaning solvent**

AMERCOAT 12 CLEANER or AMERCOAT 65 THINNER (xylene)



# AMERLOCK® SEALER

## ADDITIONAL DATA

Overcoating interval for DFT up to 2.0 mils (51 µm)				
Overcoating with...	Interval	50°F (10°C)	70°F (21°C)	90°F (32°C)
recommended topcoats	Minimum	30 hours	24 hours	18 hours
	Maximum	30 days	30 days	14 days

### Notes:

- Dry times are dependent on air and surface temperatures as well as film thickness, ventilation, and relative humidity. Maximum recoating time is highly dependent upon actual surface temperatures – not simply air temperatures. Surface temperatures should be monitored, especially with sun-exposed or otherwise heated surfaces. Higher surface temperatures shorten the maximum recoat window
- Surface must be clean and dry. Any contamination must be identified and removed. A detergent wash with PREP 88 or equivalent is required prior to application of topcoats after 30 days of exposure. However, particular attention must be paid to surfaces exposed to sunlight where chalking may be present. In those situations, a further degree of cleaning may be required. PPG Technical Service can advise on suitable cleaning methods. If maximum recoat/topcoat time is exceeded, then roughen surface.

Curing time for DFT up to 2.0 mils (51 µm)		
Substrate temperature	Dry to touch	Dry hard
50°F (10°C)	18 hours	36 hours
70°F (21°C)	12 hours	28 hours
90°F (32°C)	8 hours	22 hours

Pot life (at application viscosity)	
Mixed product temperature	Pot life
50°F (10°C)	100 minutes
70°F (21°C)	60 minutes
90°F (32°C)	30 minutes

## SAFETY PRECAUTIONS

- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets
- This is a solvent-borne paint and care should be taken to avoid inhalation of spray mist or vapor, as well as contact between the wet paint and exposed skin or eyes

## WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.



# AMERLOCK® SEALER

## REFERENCES

• CONVERSION TABLES	INFORMATION SHEET	1410
• EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
• SAFETY INDICATIONS	INFORMATION SHEET	1430
• SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD	INFORMATION SHEET	1431

## WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

## LIMITATIONS OF LIABILITY

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT. The information in this sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. PPG may modify the information contained herein at any time as a result of practical experience and continuous product development. All recommendations or suggestions relating to the use of the PPG product, whether in technical documentation, or in response to a specific inquiry, or otherwise, are based on data, which to the best of PPG's knowledge, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk. PPG has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. This sheet supersedes all previous versions and it is the Buyer's responsibility to ensure that this information is current prior to using the product. Current sheets for all PPG Protective & Marine Coatings Products are maintained at [www.ppgpmc.com](http://www.ppgpmc.com). The English text of this sheet shall prevail over any translation thereof.

Packaging: Available in 2-gallon kits; (2-gallon kits have 1 full gallon of base in a 3-gallon container and 1 full gallon of hardener)

Product code	Description
AK-0A	Base
AK-0B	Hardener



# AMERSHIELD™

## DESCRIPTION

Two-component, polyester-acrylic aliphatic polyurethane topcoat

## PRINCIPAL CHARACTERISTICS

- Outstanding weather resistance with excellent color and gloss retention
- High solids, low VOC
- Tough, flexible and abrasion resistant
- Resistant to splash of mineral and vegetable oils, paraffins, aliphatic petroleum products and mild chemicals
- Direct-to-metal or concrete for ISO 12944 C1 and C2 environments
- Meets SSPC Paint 36 Level 3

## COLOR AND GLOSS LEVEL

- Standard and custom colors
- Gloss

### Notes:

- Certain colors, especially red, orange, and yellow may require additional coats for adequate hiding, especially if applied over primers with a significant color contrast
- Yellow, red, and orange colors will fade faster than other colors due to the replacement of lead-based pigments with lead free pigments in these colors

## BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	1.3 kg/l (10.8 lb/US gal)
Volume solids	73 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 207.0 g/kg UK PG 6/23(92) Appendix 3: max. 185.0 g/l (approx. 1.5 lb/US gal) EPA Method 24: 264.0 g/ltr (2.2 lb/USgal)
Temperature resistance (Continuous)	To 94°C (200°F)
Temperature resistance (Intermittent)	To 121°C (250°F)
Recommended dry film thickness	75 - 150 µm (3.0 - 6.0 mils) depending on system
Theoretical spreading rate	7.3 m²/l for 100 µm (293 ft²/US gal for 4.0 mils)
Dry to touch	2.5 hours
Overcoating Interval	Minimum: 8 hours Maximum: 7 days
Full cure after	4 days





# AMERSHIELD™

## Data for mixed product

Shelf life	Base: at least 36 months when stored cool and dry Hardener: at least 24 months when stored cool and dry
------------	--

### Notes:

- See ADDITIONAL DATA – Spreading rate and film thickness
- See ADDITIONAL DATA – Overcoating intervals
- See ADDITIONAL DATA – Curing time
- For compliance with regulations which require VOC less than 100 g/L, AMERSHIELD VOC can be specified interchangeably
- AMERSHIELD VOC is available only in US and Canada

## RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Coating performance is proportional to the degree of surface preparation. Refer to the application instructions for specific primers and intermediate coats for application and curing procedure. All previous coats must dry and free of contaminants. Adhere to all minimum and maximum topcoat times for specific primers and intermediate coats

### Substrate conditions

- Steel; blast cleaned to ISO-Sa2½ or minimum SSPC SP-6, blasting profile 30 – 75 µm (1.2 – 3.0 mils)
- Aluminum; lightly abrasive blast with a fine abrasive
- Concrete / Masonry; see specific primer
- Previous coat (epoxy or polyurethane) must be dry and free from any contamination

### Substrate temperature and application conditions

- Substrate temperature during application and curing down to -5°C (23°F) is acceptable
- Substrate temperature during application and curing should be at least 3°C (5°F) above dew point
- Relative humidity during application and curing should not exceed 85%
- Premature exposure to early condensation and rain may cause color and gloss change

## SYSTEM SPECIFICATION

- Primers: Direct to substrate, AMERCOAT 68 Series, SIGMAZINC Series, AMERLOCK Series, AMERCOAT Epoxies & SIGMA Epoxies
- For products not listed above, contact your PPG representative

## INSTRUCTIONS FOR USE

### Mixing ratio by volume: base to hardener 80:20 (4:1)

- Pre-mix base component with a pneumatic air mixing at moderate speeds to homogenize the container. Add hardener to base and agitate with a power mixer for 2-3 minutes until completely dispersed
- The temperature of the mixed base and hardener should be above 10°C (50°F), otherwise extra thinner may be required to obtain application viscosity
- Thinner should be added after mixing the components
- Adding too much thinner results in reduced sag resistance



# AMERSHIELD™

**Induction time**

None

---

**Pot life**

2.5 hours at 20°C (68°F)

Note: See ADDITIONAL DATA – Pot life

---

**Air spray****Recommended thinner**

Global standard : THINNER 60-15, US and Canada Only : THINNER 50-48 (AMERCOAT 923), THINNER 21-06 (AMERCOAT 65), THINNER 60-12 (AMERCOAT 911) and THINNER 21-25 (AMERCOAT 101) (recommended for > 90 °F (32°C))

**Volume of thinner**

5 - 15%, depending on required thickness and application conditions

**Nozzle orifice**

1.0 - 1.5 mm (approx. 0.040 - 0.060 in)

**Nozzle pressure**

0.3 - 0.4 MPa (approx. 3 - 4 bar; 44 - 58 p.s.i.)

---

**Airless spray****Recommended thinner**

Global standard : THINNER 60-15, US and Canada Only : THINNER 50-48 (AMERCOAT 923), THINNER 21-06 (AMERCOAT 65), THINNER 60-12 (AMERCOAT 911) and THINNER 21-25 (AMERCOAT 101) (recommended for > 90 °F (32°C))

**Volume of thinner**

3 - 5%, depending on required thickness and application conditions

**Nozzle orifice**

Approx. 0.43 - 0.48 mm (0.017 - 0.019 in)

**Nozzle pressure**

20.0 MPa (approx. 200 bar; 2901 p.s.i.)

---



# AMERSHIELD™

## Brush/roller

- Use a high-quality, well-loaded, solvent-resistant, low-nap (0.25 in – 0.375 in/ 64 mm – 95 mm) roller. AMERCOAT 851 flow control additive may be used to enhance flow and leveling of brush strokes and roller stipple
- Multiple coats may be required to achieve proper film build and hiding with roller application

## Recommended thinner

Global standard : THINNER 60-15, US and Canada Only : THINNER 50-48 (AMERCOAT 923), THINNER 21-06 (AMERCOAT 65), THINNER 60-12 (AMERCOAT 911) and THINNER 21-25 (AMERCOAT 101) (recommended for > 90 °F (32°C))

## Volume of thinner

0 – 5%

## Cleaning solvent

THINNER 90-53, THINNER 90-58 (AMERCOAT 12) OR THINNER 21-06 (AMERCOAT 65)

## ADDITIONAL DATA

Spreading rate and film thickness	
DFT	Theoretical spreading rate
75 µm (3.0 mils)	9.7 m²/l (390 ft²/US gal)
100 µm (4.0 mils)	7.3 m²/l (293 ft²/US gal)
125 µm (5.0 mils)	5.8 m²/l (234 ft²/US gal)
150 µm (6.0 mils)	4.9 m²/l (195 ft²/US gal)

Overcoating interval for DFT up to 150 µm (6.0 mils)						
Overcoating with...	Interval	-5°C (23°F)	0°C (32°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)
itself	Minimum	N/A	N/A	48 hours	8 hours	4 hours
	Maximum	N/A	N/A	7 days	4 days	12 hours
itself + PPG 866M(AMERCOAT 866M) accelerator	Minimum	16 hours	8 hours	4 hours	2 hours	1.5 hours
	Maximum	4 days	48 hours	24 hours	12 hours	6 hours

# AMERSHIELD™

Curing time for DFT up to 150 μm (6.0 mils)		
Substrate temperature	Dry to touch	Dry to handle
-5°C (23°F)	8 hours	16 hours
0°C (32°F)	4 hours	10 hours
10°C (50°F)	1.5 hours - 4 hours	6 hours - 36 hours
20°C (68°F)	45 minutes - 2.5 hours	3 hours - 10 hours
30°C (86°F)	25 minutes - 1 hour	2 hours - 5 hours

## Notes:

- Range indicates drying time without and with PPG 866M(Amercoat 866M) accelerator, respectively
- -5°C and 0°C data is only with PPG 866M (AMERCOAT 866M) accelerator
- Adequate ventilation must be maintained during application and curing
- Premature exposure to early condensation and rain may cause color and gloss change

Pot life (at application viscosity)	
Mixed product temperature	Pot life
10°C (50°F)	4 hours
20°C (68°F)	2.5 hours
30°C (86°F)	1 hour

## Notes:

- Times are proportionally shorter at higher temperature and longer at lower temperatures
- PPG 866M (AMERCOAT 866M) accelerator will reduce pot life to half

## Product Qualifications

- Compliant with USDA Incidental Food Contact Requirements
- Nuclear Service Level 2 (partial)
- NFPA Class A Flame Spread

## SAFETY PRECAUTIONS

- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets
- This is a solvent-borne paint and care should be taken to avoid inhalation of spray mist or vapor, as well as contact between the wet paint and exposed skin or eyes
- Contains a toxic polyisocyanate curing agent
- Avoid at all times inhalation of aerosol spray mist

## WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.



# AMERSHIELD™

## REFERENCES

• CONVERSION TABLES	INFORMATION SHEET	1410
• EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
• SAFETY INDICATIONS	INFORMATION SHEET	1430
• SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD	INFORMATION SHEET	1431
• SAFE WORKING IN CONFINED SPACES	INFORMATION SHEET	1433
• DIRECTIVES FOR VENTILATION PRACTICE	INFORMATION SHEET	1434
• CLEANING OF STEEL AND REMOVAL OF RUST	INFORMATION SHEET	1490
• SPECIFICATION FOR MINERAL ABRASIVES	INFORMATION SHEET	1491
• RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE	INFORMATION SHEET	1650

## WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

## LIMITATIONS OF LIABILITY

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT. The information in this sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. PPG may modify the information contained herein at any time as a result of practical experience and continuous product development. All recommendations or suggestions relating to the use of the PPG product, whether in technical documentation, or in response to a specific inquiry, or otherwise, are based on data, which to the best of PPG's knowledge, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk. PPG has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. This sheet supersedes all previous versions and it is the Buyer's responsibility to ensure that this information is current prior to using the product. Current sheets for all PPG Protective & Marine Coatings Products are maintained at [www.ppgpmc.com](http://www.ppgpmc.com). The English text of this sheet shall prevail over any translation thereof.

The PPG logo, and all other PPG marks are property of the PPG group of companies. All other third-party marks are property of their respective owners.





# NOVAGUARD™ 840

## DESCRIPTION

Two-component, solvent-free, amine-cured novolac phenolic epoxy coating

## PRINCIPAL CHARACTERISTICS

- Suitable for heavy H<sub>2</sub>S wastewater environments
- Suitable for use on primed steel or direct to concrete/masonry
- Good visibility due to light color
- Glossy and smooth appearance
- Reduced explosion risk and fire hazard
- Suitable for storage of unleaded gasolines
- Good chemical resistance against a wide range of chemicals and solvents
- Clear version for glass-mat reinforced, solvent-free tank bottom system (see SYSTEM SHEET 4145)
- Excellent resistance to crude oil up to 120°C (250°F)
- Can be applied by heavy-duty, single-feed, airless spray equipment (60:1)
- Meets the requirements of EI 1541 2.2 (coating systems for aviation fuel storage tanks and pipes)
- Meets NSF/ANSI Standard 61 for potable water when applied and used as described on [www.http://www.nsf.org/](http://www.nsf.org/)

## COLOR AND GLOSS LEVEL

- Green, cream, clear
- Gloss

## BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	1.3 kg/l (10.8 lb/US gal)
Volume solids	100%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 106.0 g/kg max. 142.0 g/l (approx. 1.2 lb/US gal) EPA Method 24: 73.0 g/ltr (0.6 lb/USgal)
Recommended dry film thickness	300 - 600 µm (12.0 - 24.0 mils) depending on system
Theoretical spreading rate	3.3 m <sup>2</sup> /l for 300 µm (134 ft <sup>2</sup> /US gal for 12.0 mils)
Dry to touch	6 hours
Overcoating interval	Minimum: 24 hours Maximum: 2 months
Full cure after	5 days

# NOVAGUARD™ 840

**Data for mixed product**

<b>Shelf life</b>	Base: at least 24 months when stored cool and dry Hardener: at least 24 months when stored cool and dry
-------------------	--

**Notes:**

- See ADDITIONAL DATA – Spreading rate and film thickness
- See ADDITIONAL DATA – Overcoating intervals
- See ADDITIONAL DATA – Curing time

---

**RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES****Carbon steel**

- Steel; blast cleaned to a minimum of SSPC-SP10 or ISO-SA2½, blasting profile 50 – 125 µm (5.0 mils) (2.0 – 5.0 mils)
- Steel with suitable primer (NOVAGUARD 260 or PHENGUARD 930) must be dry and free from any contamination

**Concrete**

- Remove grease, oil and other penetrating contaminants according to ASTM D4258
- Abrade the surface per ASTM D4259 to remove all chalk and surface glaze or laitance. Achieve surface profile - ICRI CSP 3 to 5
- NOVAGUARD 840 with PPG 884 Additive or AMERCOAT 114A may be used as a pit filler for certain applications. Check with PPG Technical Service for guidance on chemical resistance
- Maximum recommended moisture transmission rate is 3 lbs / 1,000 ft<sup>2</sup> / 24 hours by moisture transmission test (ASTM F1869, calcium chloride test or by ASTM D4263, plastic sheet test)
- Moisture content should not exceed 4% (ASTM D4944, Calcuim Carbide Gas method)

**Substrate temperature and application conditions**

- Substrate temperature during application and curing should be above 5°C (41°F)
- Substrate temperature during application and curing should be at least 3°C (5°F) above dew point

---

**INSTRUCTIONS FOR USE****Mixing ratio by volume: base to hardener 80:20 (4:1)**

- The temperature of the mixed base and hardener should preferably be at least 20°C (68°F)
- At lower temperature, the viscosity will be too high for spray application
- No thinner should be added
- For recommended application instructions, see working procedure

**Induction time**

None



# NOVAGUARD™ 840

**Pot life**

1 hour at 20°C (68°F)

Note: See ADDITIONAL DATA – Pot life

**Airless spray**

- Use heavy-duty, single-feed, airless spray equipment, preferably 60:1 pump ratio and suitable high-pressure hoses/in-line heating or insulated hoses may be necessary to avoid cooling down of paint in hoses at low air temperature
- Length of hoses should be as short as possible

**Recommended thinner**

No thinner should be added

**Nozzle orifice**

Approx. 0.53 mm (0.021 in)

**Nozzle pressure**

At 20°C (68°F) paint temperature min. 28.0 MPa (approx. 280 bar; 4061 p.s.i.). At 30°C (86°F) min. 22.0 MPa (approx. 220 bar; 3191 p.s.i.)

**Brush/roller**

- Brush: for stripe coating and spot repair only

**Recommended thinner**

No thinner should be added

**Cleaning solvent**

THINNER 90-53 or THINNER 90-83

**Notes:**

- Paint inside the spraying equipment must be removed before the pot life has been expired
- All application equipment must be cleaned immediately after use

**ADDITIONAL DATA**

Spreading rate and film thickness	
DFT	Theoretical spreading rate
300 µm (12.0 mils)	3.3 m²/l (134 ft²/US gal)
600 µm (24.0 mils)	1.7 m²/l (67 ft²/US gal)

Note: Maximum DFT when brushing: 150 µm (6.0 mils)

# NOVAGUARD™ 840

## Measuring wet film thickness

- A difference is often obtained between the measured apparent WFT and the real applied WFT. This is due to the thixotropy and the surface tension of the paint, which retards the release of air, trapped in the paint film for some time
- Recommendation is to apply a WFT, which is equal to the specified DFT plus 60 µm (2.4 mils)

## Measuring dry film thickness

- Because of low initial hardness the DFT cannot be measured within some days, due to the penetration of the measuring device into the soft paint film
- The DFT should be measured using a calibration foil of known thickness placed in between the coating and the measuring device

Overcoating interval for DFT up to 300 µm (12.0 mils)					
Overcoating with...	Interval	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)
itself	Minimum	3.5 days	36 hours	24 hours	16 hours
	Maximum	3 months	3 months	2 months	1 month

Note: Surface should be dry and free from any contamination

Curing time for DFT up to 300 µm (12.0 mils)			
Substrate temperature	Dry to handle	Minimum cure time for purely aliphatic petroleum product (see note)	Minimum cure time for all other chemicals
5°C (41°F)	60 hours	10 days	15 days
10°C (50°F)	30 hours	5 days	7 days
20°C (68°F)	16 hours	60 hours	5 days
30°C (86°F)	10 hours	36 hours	3 days
40°C (104°F)	6 hours	18 hours	48 hours

### Notes:

- Gasoline or gasoline/alcohol blends are not included in purely aliphatic petroleum products, please contact your PPG representative for further details
- Adequate ventilation must be maintained during application and curing (please refer to INFORMATION SHEETS 1433 and 1434)

Pot life (at application viscosity)	
Mixed product temperature	Pot life
10°C (50°F)	2 hours
20°C (68°F)	1 hour
30°C (86°F)	45 minutes

Note: Due to exothermic reaction, temperature during and after mixing may increase



# NOVAGUARD™ 840

## Product Qualifications

- Qualified for ANSI/NSF Standard 61 (potable water). For NSF application instructions, please visit the following website:  
<http://www.nsf.org/certified-products-systems/>

## SAFETY PRECAUTIONS

- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets
- Although this is a solvent-free paint, care should be taken to avoid inhalation of spray mist, as well as contact between the wet paint and exposed skin or eyes
- Ventilation should be provided in confined spaces to maintain good visibility
- If workers are exposed to concentrations above the exposure limit, they must use appropriate personal protective equipment (PPE).

## WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.

## REFERENCES

• CONVERSION TABLES	INFORMATION SHEET	1410
• EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
• SAFETY INDICATIONS	INFORMATION SHEET	1430
• SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD	INFORMATION SHEET	1431
• SAFE WORKING IN CONFINED SPACES	INFORMATION SHEET	1433
• DIRECTIVES FOR VENTILATION PRACTICE	INFORMATION SHEET	1434
• CLEANING OF STEEL AND REMOVAL OF RUST	INFORMATION SHEET	1490
• SPECIFICATION FOR MINERAL ABRASIVES	INFORMATION SHEET	1491
• RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE	INFORMATION SHEET	1650

## WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.





# NOVAGUARD™ 840

## LIMITATIONS OF LIABILITY

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT. The information in this sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. PPG may modify the information contained herein at any time as a result of practical experience and continuous product development. All recommendations or suggestions relating to the use of the PPG product, whether in technical documentation, or in response to a specific inquiry, or otherwise, are based on data, which to the best of PPG's knowledge, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk. PPG has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. This sheet supersedes all previous versions and it is the Buyer's responsibility to ensure that this information is current prior to using the product. Current sheets for all PPG Protective & Marine Coatings Products are maintained at [www.ppgpmc.com](http://www.ppgpmc.com). The English text of this sheet shall prevail over any translation thereof.

The PPG logo, and all other PPG marks are property of the PPG group of companies. All other third-party marks are property of their respective owners.





24' x 8' x 8' Type 2 magazine with 2 sets of double doors

## Standard Type 2 Magazines

All Armag Corporation type 2 magazines have been manufactured since 1969 to meet or exceed ATF specs. The exterior is 1/4" ASTM A-36 prime steel and the interior is lined with 3" of hardwood. Two lock staples are shrouded by 1/4" steel hoods. We include hinge side door protection to prevent the door from being opened in the event the hinges are defeated and each door has an attached grounding strap to transfer static electricity back to the main structure. The magazine is properly vented and is mounted on 6" wide flange beams to keep the bottom off the ground. The unit is commercially sandblasted and painted with 8 mils of high solids urethane to protect the structure from the elements.



4' x 4' x 4' Type 2 ATF spec magazine



5' x 4' x 7' Type 2 magazine with attached 24" x 24" x 24" Type 4 cap box



Interior view of 24' x 8' x 8' Type 2 magazine

Numerous options are available including explosion proof lights and heat/AC, attached cap boxes and attached magazines, interior divider walls, and double doors. Standard size magazines range from 3' x 3' x 3' (LWH) to 40' x 8' x 10'.

Call us to discuss your storage needs or visit our website for a complete listing of standard sizes.

S:\Projects\2013\13-098 EQ Florida Building\DWG\13-098 EQ001.dwg, 7/24/2013 1:59:55 PM, alexh

STRUCTURAL NOTES

I. GOVERNING CODES:

This design is based on the following codes:

- A. 40 CFR Part 264, Subpart J - Tank Systems
- B. Florida Building Code, 2010 EDITION.
- C. Specification for the Design, Fabrication, and Erection of Structural Steel for Building, ASD Design method.
- D. Structural Welding Code D1.1

II. DISCREPANCIES BETWEEN DRAWINGS & EXISTING CONDITIONS:

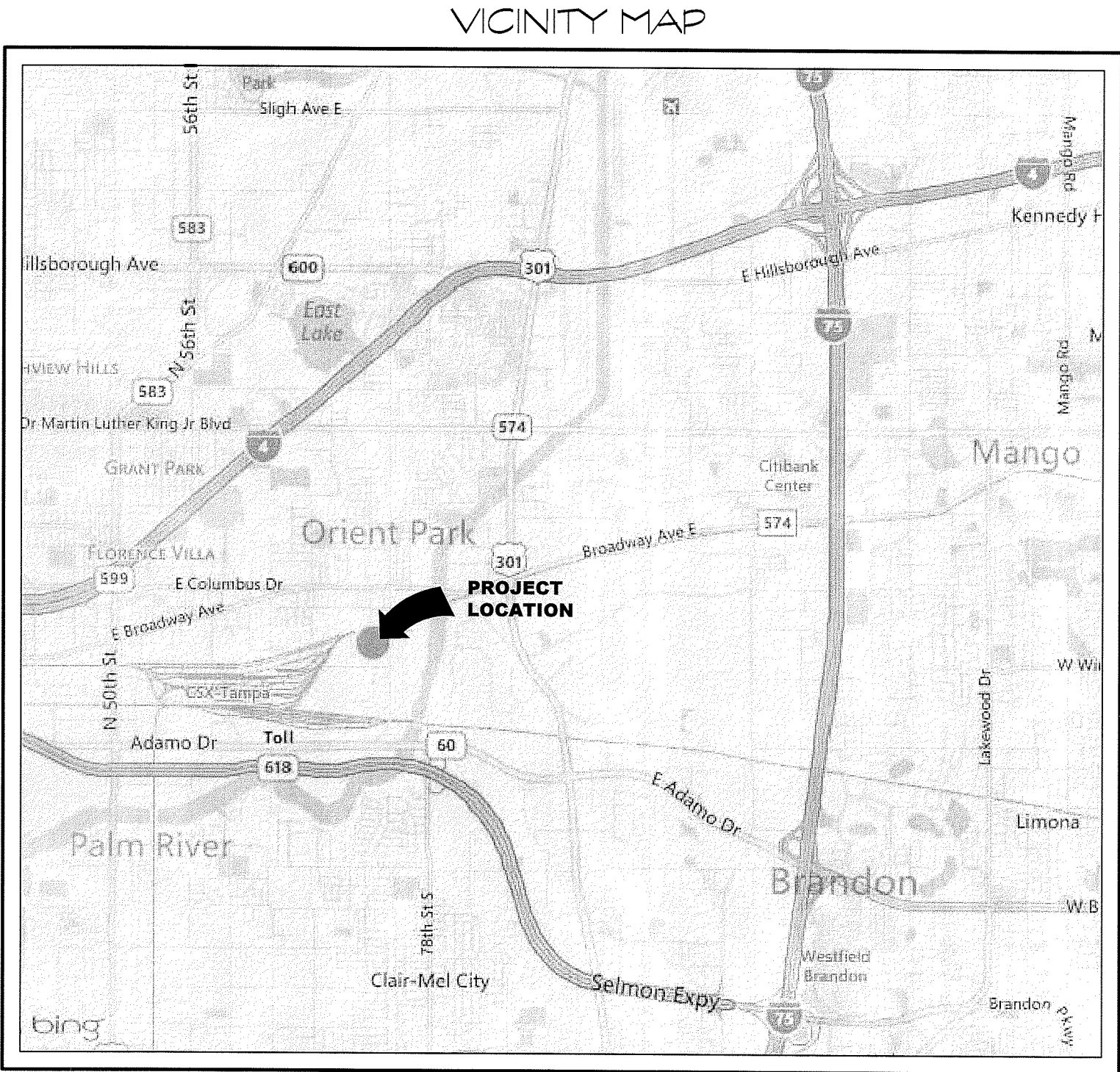
These drawings were prepared based on field data gathered during the design process. However, as the demolition of the existing structure allows for better views of the existing structure, there may be discrepancies between the drawings & the actual conditions. These discrepancies should be brought to the attention of the engineer immediately. Please confirm all dimensions to the existing structure before ordering, purchasing, or installing any new work.

III. DRAWINGS AND SPECIFICATIONS:

- A. Do not scale these drawings for dimensions not given. Verify all field conditions and confirm column locations in respect to building wall alignment prior to the start of work.
- B. These construction documents have been prepared from the most complete information available to the engineer. All data on existing construction conditions are approximate & shall be verified prior to commencing work.
- C. The contractor shall comply with the manufacturer's instructions & recommendations to the extent printed information are more detailed or stringent than the requirements contained in the plans.
- D. The plans show the location of all fixtures & equipment & are intended to convey the general intent of the work in scope & layout. They are not intended to show in minute detail every & all of the accessories intended for the purpose of execution of the work, but it is understood that such details are part of this work.
- E. The Contractor shall perform no portion of the work at any time without Contract Documents or, where required, approved shop drawings, product data or supplemental details for such portion of the work.
- F. The Contractor is responsible for means and methods of construction to ensure the safety of the building until the structural system is completed. The structural system is unstable until all connections have been made and all concrete has reached the minimum design strength as specified in these drawings.

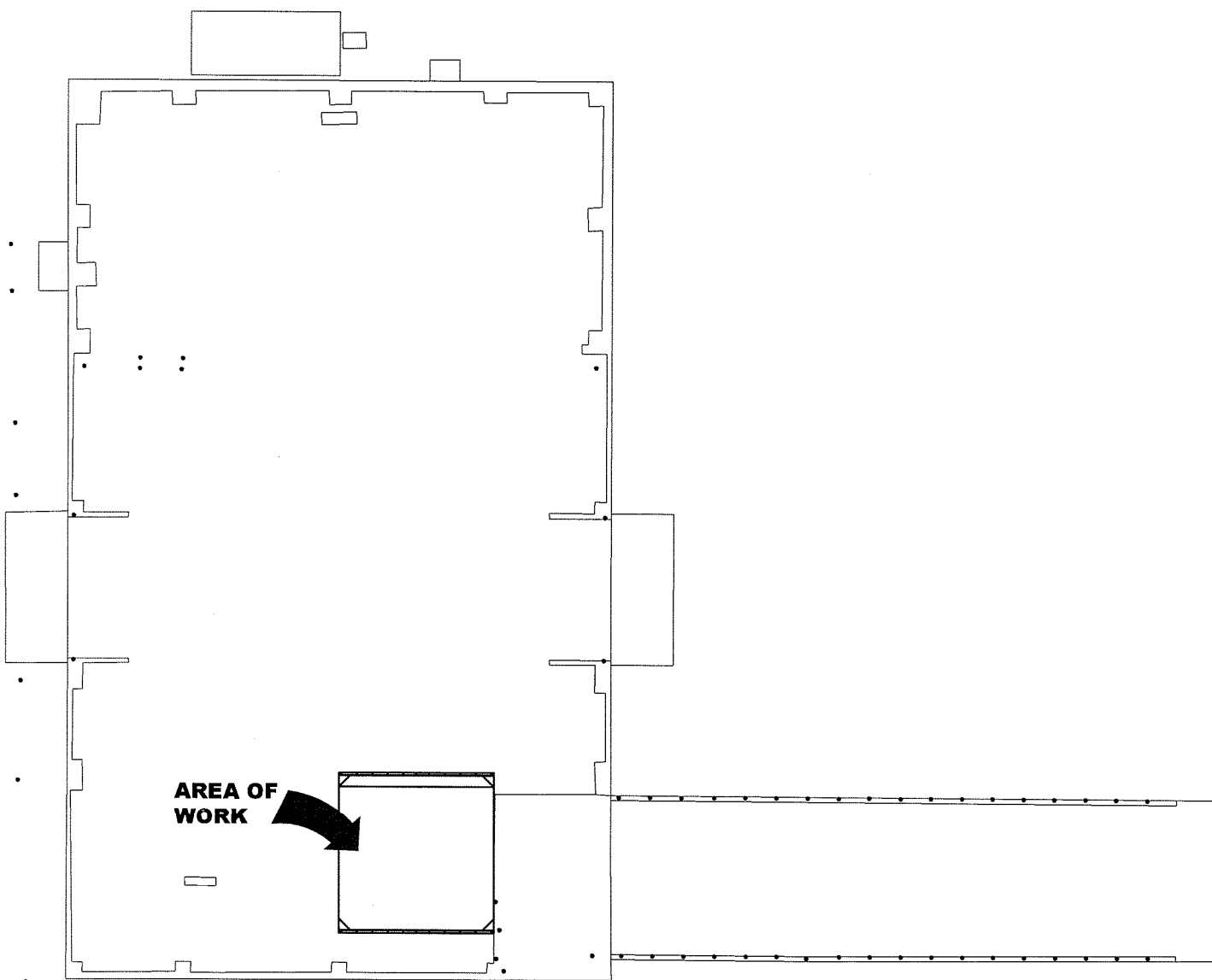
IV. STRUCTURAL STEEL:

- A. Fabrication and erection of structural steel shall be in accordance with AISC "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings" (latest edition).
- B. Structural steel shapes (used as beams and columns) shall conform to ASTM A572 Grade 50 KSI unless otherwise noted on the contract drawings.
- C. Plates, channels, rods, anchor bolts and angles shall conform to ASTM A36 unless otherwise noted of the contract drawings.
- D. Steel pipe shall conform to ASTM A53 Grade B or ASTM A501.
- E. Structural tubing shall conform to ASTM A500 Grade B (46 KSI minimum).
- F. All bolts (except anchor bolts) shall be high strength (HSB) shall conform to ASTM A325, 3/4" diameter unless noted otherwise. High strength bolts shall be used unless specifically noted on the drawings.
- G. All welding shall be performed by certified welders in accordance with AWS "Code for Arc and Gas Welding in Building Construction" (latest edition). The minimum electrode used shall be E70xx Low Hydrogen electrodes unless otherwise specified.
- H. All beams shall be fabricated and erected natural camber up
- I. Splicing of structural steel where not detailed is not permitted with out prior written approval of the structural engineer.



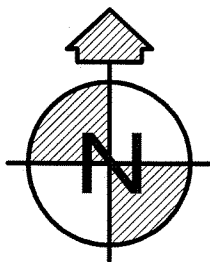
ABBREVIATIONS (NOT ALL ARE USED)

AB	ANCHOR BOLT	LL	LIVE LOAD
AFF	ABOVE FINISH FLOOR	LLBB	LONG LEG BACK-TO-BACK
ARCH	ARCHITECT(URAL)	LLH	LONG LEG HORIZONTAL
BLDG	BUILDING	LLV	LONG LEG VERTICAL
BRDG	BRIDGING	OC	ON CENTER
BRG	BEARING	PAF	POWDER-ACTUATED FASTENER(S)
CJ	CONSTRUCTION JOINT (OR CONTROL JOINT)	PL	PLATE
CL	CENTERLINE	PLF	POUNDS PER LINEAR FOOT
CMU	CONCRETE MASONRY UNIT	PNL	PANEL
CONC	CONCRETE	PSF	POUNDS PER SQUARE FOOT
CONN	CONNECTION	PSI	POUNDS PER SQUARE INCH
CONT	CONTINUOUS	REQD	REQUIRED
COORD	COORDINATE	SDI	STEEL DECK INSTITUTE
DIA	DIAMETER	SM	SIMILAR
DL	DEAD LOAD	SJI	STEEL JOIST INSTITUTE
DWG	DRAWING	SOG	SLAB ON GRADE
EA	EACH	SPECS	SPECIFICATIONS
ENG	ENGINEER	SQ	SQUARE
EL	ELEVATION	STD	STANDARD
EQ	EQUAL	STL	STEEL
EV	EACH WAY	T&B	TOP AND BOTTOM
EXT	EXTERIOR	TRANS	TRANSVERSE
FBC	FLORIDA BUILDING CODE	TYP	TYPICAL
FF	FINISHED FLOOR	UNO	UNLESS NOTED OTHERWISE
FS	FAR SIDE	VIF	VERIFY IN FIELD
FTG	FOOTING	VERT	VERTICAL
GA	GAUGE	WWF	WELDED WIRE FABRIC
GC	GENERAL CONTRACTOR	W/	WITH
HC	HOLLOW-CORE		
HORIZ	HORIZONTAL		
HS	HEADED STUD		
HSS	HOLLOW STRUCTURAL SECTION		
INT	INTERIOR		



BUILDING KEY PLAN

SCALE: NTS



STRUCTURAL NOTES

REVISIONS
1
2
3
4
5

1095 E. Brandon Blvd.  
Brandon, Florida 33511  
P (813) 455-2884  
F (813) 455-2886  
www.avantitampa.com  
FLORIDA CERTIFICATE OF  
AUTHORIZATION NO. 26537

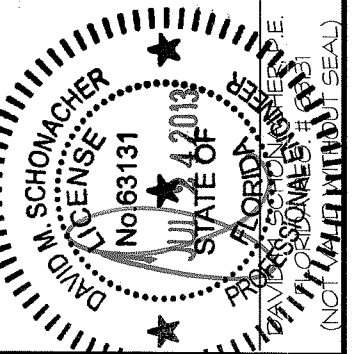
**THE AVANTI GROUP**  
consulting engineers

CLIENT:

**KCI TECHNOLOGIES, INC**  
10401 HIGHLAND MANOR DR SUITE 120  
TAMPA, FL 33610

PROPOSED TANK SYSTEM FOR

**EQ FLORIDA**  
7202 EAST 8TH AVE  
TAMPA, FL 33619



I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE DRAWINGS & SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

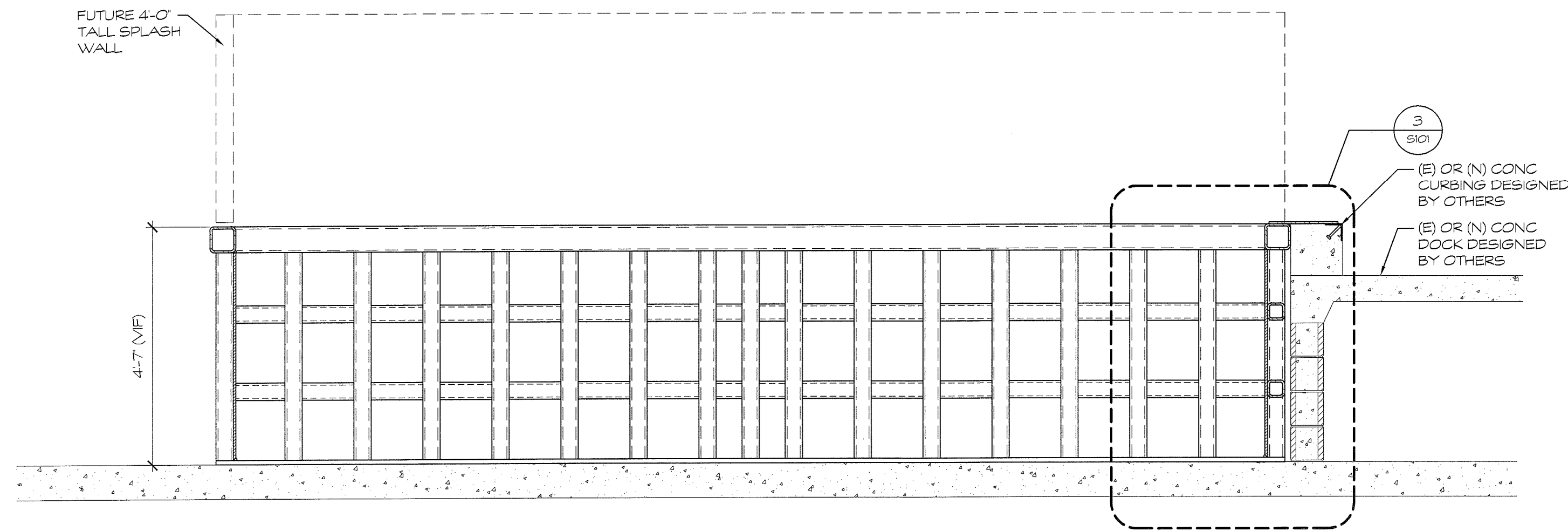
SCALE:	AS SHOWN
DRAWN BY:	ALH
CHECKED BY:	DMS
ISSUE DATE:	07-24-13
PROJECT:	13-098

SHEET NUMBER

**5001**



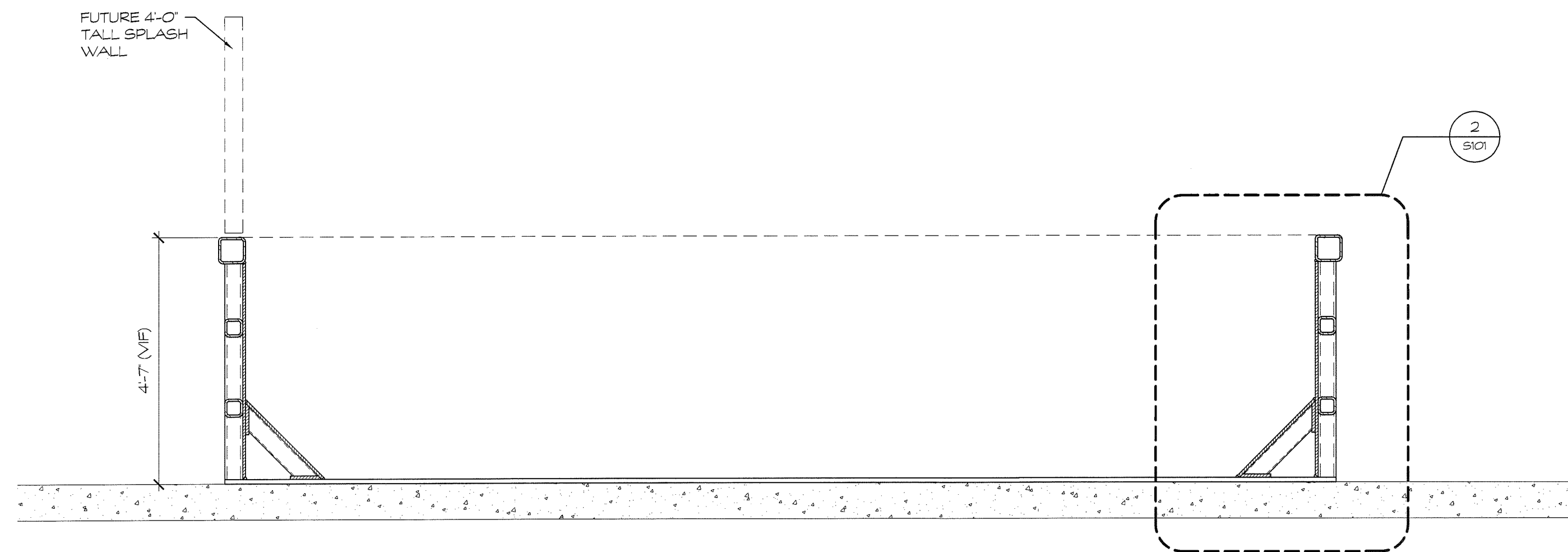
S:\Projects\2013\13-098 EQ Florida Building\DWG\13-098 5001.dwg, 7/24/2013 1:59:56 PM, dext



**TANK SOUTH ELEVATION**

SCALE: 1/2" = 1'-0"

FILE\_NAME

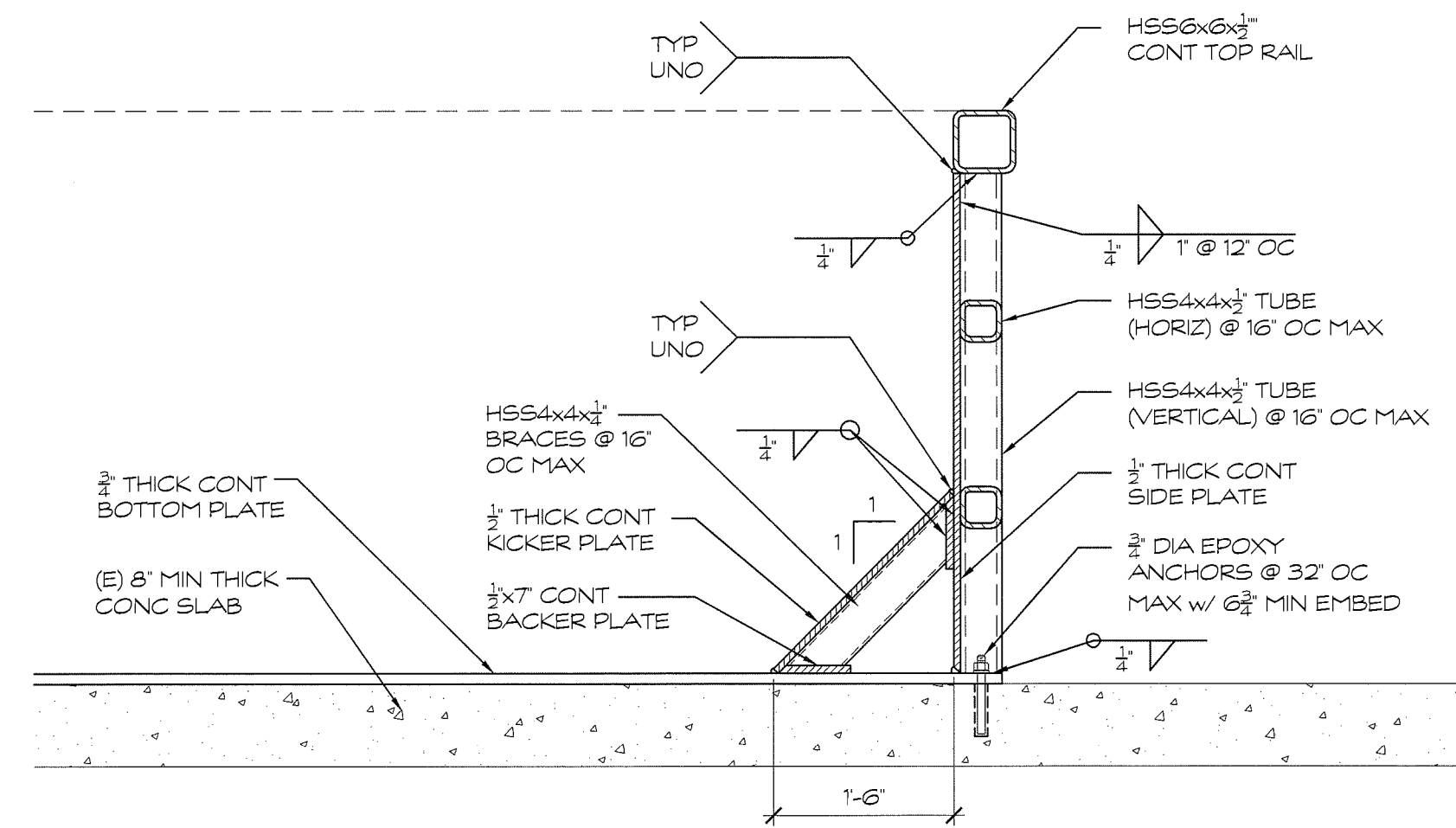


**TANK SECTION**

SCALE: 1/2" = 1'-0"

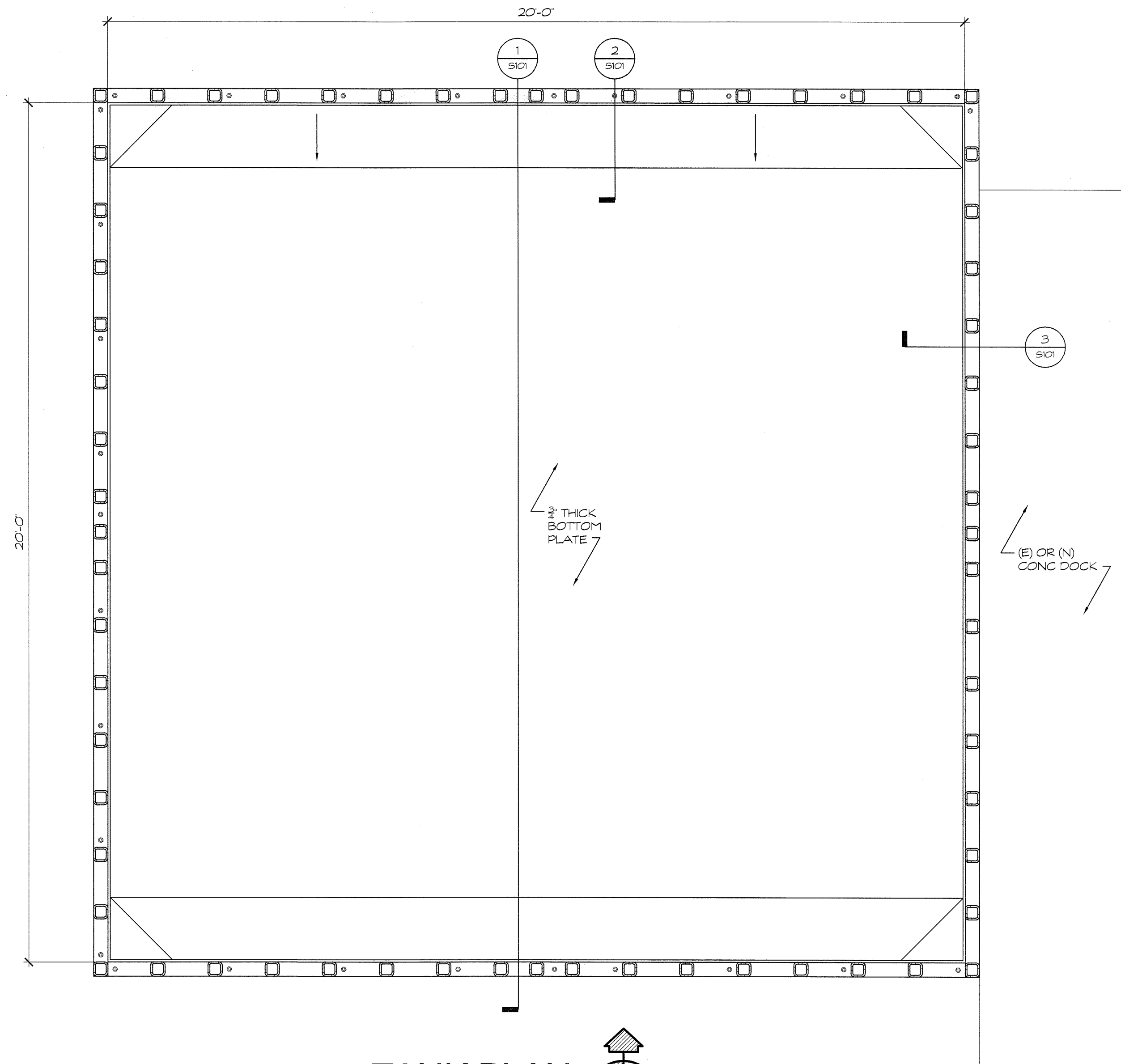
**NOTE**

I HAVE REVIEWED THE REQUIREMENTS IN 40 CFR PART 264, SUBPART J-TANK SYSTEMS AND THE TREATMENT TANK DESIGN WAS BASED ON CONSIDERATION OF THESE REQUIREMENTS AS WELL AS THE APPLICABLE GOVERNING CODES AND STRUCTURAL STEEL NOTES PROVIDED IN THE STRUCTURAL NOTES SECTION ON SHEET S001. IN MY PROFESSIONAL OPINION, THE TANK SYSTEM HAS SUFFICIENT STRUCTURAL INTEGRITY AND IS ACCEPTABLE FOR STORING AND TREATING HAZARDOUS WASTE. FURTHER, THE FOUNDATION, STRUCTURAL SUPPORT, BEAMS AND CONNECTIONS ARE ADEQUATELY DESIGNED AND THE TANK HAS SUFFICIENT STRUCTURAL STRENGTH, COMPATIBILITY WITH THE WASTES TO BE STORED OR TREATED, AND CORROSION PROTECTION TO ASSURE THAT IT WILL NOT COLLAPSE, RUPTURE, OR FAIL.



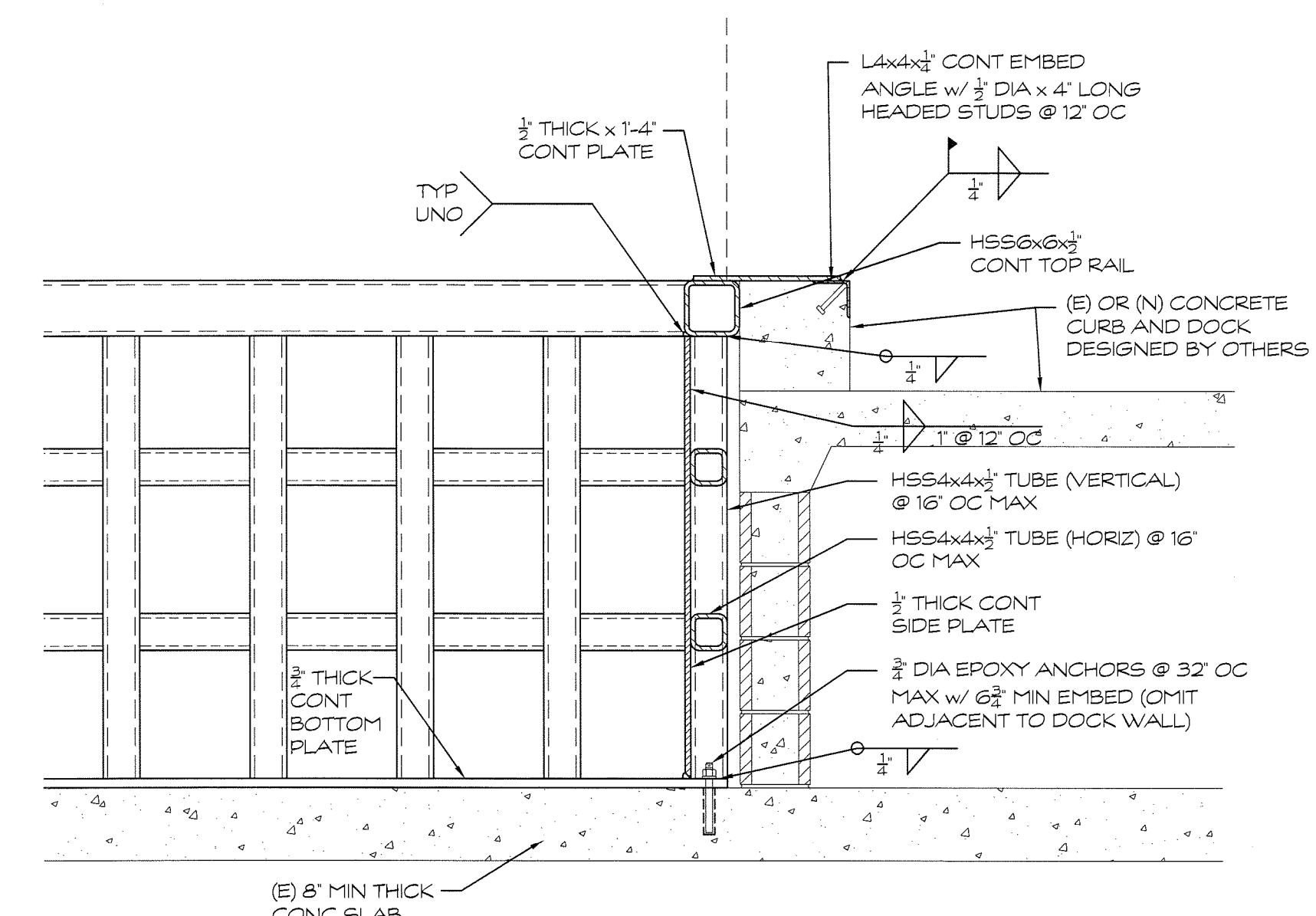
**SECTION AT NORTH WALL (PULL)**

SCALE: 3/4" = 1'-0"



**TANK PLAN**

SCALE: 1/2" = 1'-0"



**SECTION AT EAST WALL (DOCK)**

SCALE: 3/4" = 1'-0"

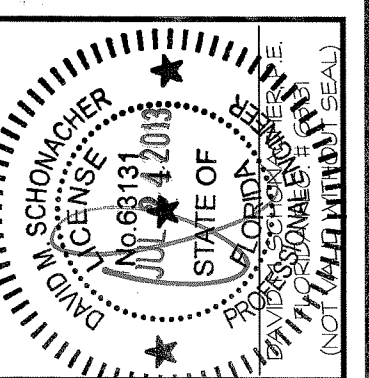
TANK PLAN, ELEVATION & DETAILS

REVISIONS				
1				
2				
3				
4				
5				

1095 E. Brandon Blvd.  
Brandon, Florida 33511  
P (813) 655-2884  
F (813) 655-2886  
www.avantigroup.com  
FLORIDA CERTIFICATE OF  
AUTHORIZATION No. 26537  
**THE AVANTI GROUP**  
consulting engineers

**KCI TECHNOLOGIES, INC**  
10401 HIGHLAND MANOR DR SUITE 120  
TAMPA, FL 33610

**EQ FLORIDA**  
7202 EAST 8TH AVE  
TAMPA, FL 33619



I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE DRAWINGS & SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

SCALE: AS SHOWN  
DRAWN BY: ALH  
CHECKED BY: DMS  
ISSUE DATE: 07-24-13  
PROJECT: 13-098

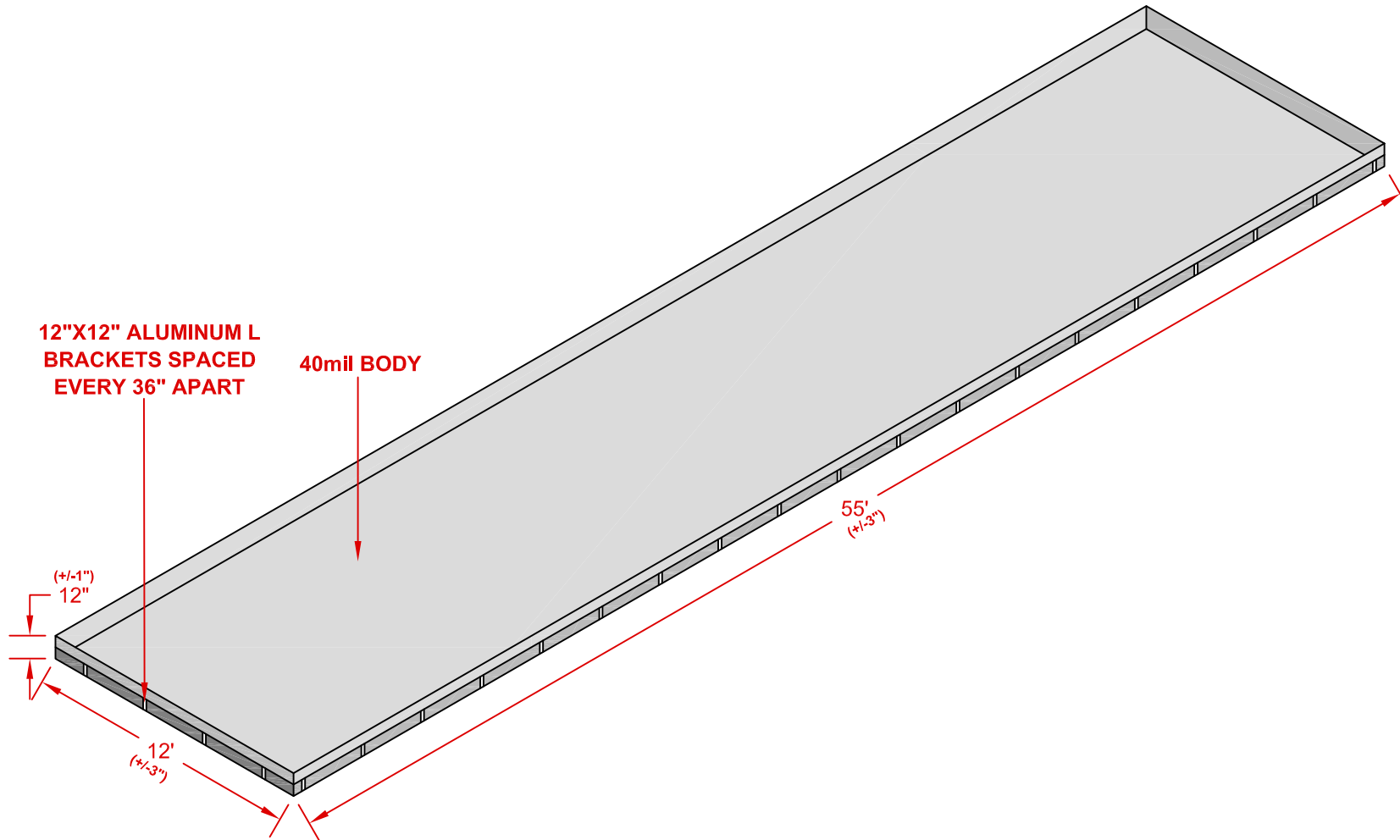
SHEET NUMBER  
**S101**

## PT125512

### MTL'S:

- 40mil. LLDPE
- 12"x12" ALUMINUM L BRACKETS

THIS DOCUMENT CONTAINS PROPRIETARY DATA OF  
PACTEC, INC. NO DISCLOSURE, REPRODUCTION, OR USE  
OF ANY PART THEREOF MAY BE MADE WITHOUT WRITTEN  
PERMISSION MANUFACTURED UNDER ONE OR MORE USA  
& WORLDWIDE PATENTS, TRADEMARKS REG'D:  
5,776,567-5,110,005-5,098,364-7,073,676-  
6,086,758-6,306,293-6,554,997-6,562,233  
  
BRITISH PATENT # GB2453305



FINISHED

# PACTEC

## PacTec, Inc.

1-(800)-272-2832

CUSTOMER APPROVAL

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

CONTACT INFORMATION

NAME \_\_\_\_\_ PHONE # \_\_\_\_\_

Proprietary & Confidential

CUSTOMER NAME

## US ECOLOGY OF TAMPA

PACTEC ITEM CODE-

PT125512

DESCRIPTION PT125512

SIZE **A**

SCALE

DWG NO.

PT125512

DRAWN BY  
**DWF**

DATE DRAWN  
**02/19/15**

REVISION  
**0.0**

SHEET **1** OF **1**



## ► 40 Mil Polyethylene Chemical Resistance

Use this Chart as a General Guide Only. Test each chemical first before storing in plastic. The first letter of each pair represents the resistance rating at 20 degrees Celsius; the second at 50 degrees Celsius.

E – No Damage after 30 days of constant exposure.

G – Little or no damage after 30 days of constant exposure.

F – Some effect after seven days of constant exposure. Depending on the plastic, the effect may be cracking, crazing, and loss of strength or discoloration. Solvents may cause softening, swelling and permeation losses with HDPE; the solvent effects on these materials are normally reversible.

N – Not recommended for continuous use. Immediate damage may occur.

Depending on the plastic, the effect will be severe cracking, crazing, loss of strength, discoloration, deformation, dissolution or permeation loss.

### EFFECTS OF CHEMICALS ON PLASTICS

Chemicals can affect the weight, strength, color, dimensions, flexibility and surface appearance of plastics. The basic models of interaction that cause these changes are: (1) chemical attack on the polymer chain, with resultant reduction in physical properties, including oxidation reaction of functional groups in, or on, the chain, with resultant reduction in physical properties, including oxidation; reaction of functional groups, in or on the chain; and depolymerization; (2) physical change, including absorption of solvents, resulting in softening and swelling of the plastic; permeation of solvent through the plastic; or dissolution in a solvent; and (3) stress-cracking from the interaction of a “stress-cracking agent” with molded-in or external stresses.

The reaction combination of compounds of two or more classes may cause a synergistic or undesirable chemical effect. Other factors affecting chemical resistance include temperature, pressure, internal or external stresses (such as centrifugation), and length of exposure to and concentration of the chemical. As temperature increases, resistance to attack decreases.

Acetaldehyde	GF	Cinnamon Oil	FN
Acetamide, sat.	EE	Citric Acid 10%	EE
Acetic Acid 5%	EE	Cresol	DN
Acetic Acid 50%	EE	Cyclohexane	DN
Acetone	NN	DeCalin	EG
Acetonitrile	EE	o-Dichlorobenzene	FF
Acrylonitrile	EE	p-Dichlorobenzene	DF
Adipic Acid	EE	Diethyl Benzene	FN
Alanine	EE	Diethyl Ether	FN
Allyl Alcohol	EE	Diethyl Ketone	NN
Aluminum Hydroxide	EE	Diethyl Malonate	EE
Aluminum Salts	EE	Diethylene Glycol	EE
Amino Acids	EE	Diethylene Glycol Ethyl Ether	EE
Ammonia	EE	Dimethyl Formamide	EE
Ammonium Acetate, sat	EE	Dimethylsulfoxide	EE
Ammonium Glycolate	EE	1,4 Dioxane	GG
Ammonium Hydroxide 5%	EE	Dipropylene Glycol	EE
Ammonium Hydroxide 30%	EE	Ether	FN
Ammonium Oxalate	EE	Ethyl Acetate	EE
Ammonium Salts	EE	Ethyl Alcohol (absolute)	EE
n-Amyl Acetate	EG	Ethyl Alcohol 40%	EE
Amyl Chloride	FN	Ethyl Benzene	GF
Aniline	EG	Ethyl Benzoate	GG
Benzaldehyde	EE	Ethyl Butyrate	GF
Benzene	NN	Ethyl Chloride, liquid	FN
Benzoic Acid, sat.	EE	Ethyl Cyanoacetate	EE
Benzyl Acetate	EE	Ethyl Lactate	EE
Benzyl Alcohol	FN	Ethylene Chloride	GF
Bromine	FN	Ethylene Glycol	EE
Bromobenzene	FN	Ethylene Glycol Methyl Ether	EE
Bromoform	NN	Ethylene Oxide	GF
Butadiene	FN	Fluoride	EE
n-Butyl Acetate	EG	Flourine	GN
n-Butyl Alcohol	EE	Formaldehyde 10%	EE
sec-Butyl Alcohol	EE	Formaldehyde 40%	EE
tert-Butyl Alcohol	EE	Formic Acid 3%	EE
Butyric Acid	FN	Formic Acid 50%	EE
Calcium Hypochlorite, Sat.	EE	Formic Acid 98-100%	EE
Cabazole	EE	Freon TF	EG
Carbon Disulfide	NN	Fuel Oil	GF
Carbon tetrachloride	GF	Gasoline	GG
Cedarwood Oil	FN	Glacial Acetic Acid	EE
Cellosolve Acetate	EE	Glycerine	EE
Chlorine 10% in air	EF	n-Heptane	GF
Chlorine 10% (moist)	GF	Hydrochloric Acid 1-5%	EE
Chloroacetic Acid	EE	Hydrochloric Acid 20%	EE
p-Chloroacetophenone	EE	Hydrochloric Acid 35%	EE
Chloroform	FN	Hydrofluoric Acid 4	EE
Chromic Acid 10%	EE	Hydrofluoric Acid 48%	EE
Chromic Acid 50%	EE	Hydrogen Peroxide 3%	EE

Hydrogen Peroxide 30%	EE	Sulfuric Dioxide, wet or dry	EE
Osobutyl Alcohol	EE	Sulfur Salts	GF
Isopropyl Acetate	EG	Tartaric Acid	EE
Isopropyl Alcohol	EE	Tetrahydrofuran	GF
Osopropyl Benzene	GF	Thionyl Chloride	NN
Kerosene	GG	Toluene	GG
Lactic Acid 3%	EE	Tributyl Citrate	EG
Lactic Acid 85%	EE	Trichloroethane	FN
Methoxyethyl Oleate	EE	Trichloroethylene	FN
Methyl Alcohol	EE	Triethylene Glycol	EE
Methyl Ethyl Ketone	NN	Tripropylene Glycol	EE
Methyl Isobutyl Ketone	NN	Trupentine	GG
Methyl Propyl Ketone	EG	Undecyl Alcohol	EG
Methylene Chloride	FN	Urea	EE
Mineral Oil	EE	Vinylidene Chloride	FN
Nitric Acid 1-10%	EE	Xylene	GF
Nitric Acid 50%	GN	Zinc Stearate	EE
Nitric Acid 70%	GN		
Perchloroethylene	NN		
Phenol, Chrystals	GF		
Phosphoric Acid 1-5%	EE		
Phosphoric Acid 85%	EE		
Pine Oil	EG		
Potassium Hydroxide 1%	EE		
Potassium Hydroxide conc.	EE		
Propane Gas	FN		
Propylene Glycol	EE		
Propylene Oxide	EE		
Resorcinol sat.	EE		
Resorcinol 5%	EE		
Salicylaldehyde	EE		
Salicylic Acid, powder	EE		
Salicylic Acid, sat.	EE		
Salt Solutions, metallic	EE		
Silver Acetate	EE		
Sodium Nitrate	EE		
Sodium Acetate, sat.	EE		
Sodium Hydroxide 1%	EE		
Sodium Hydroxide 50% to sat.	EE		
Sodium Hypochlorite 15%	EE		
Stearic Acid, crystals	EE		
Sulfuric Acid 1-6%	EE		
Sulfuric Acid 20%	EE		
Sulfuric Acid 60%	EE		
Sulfuric Acid, 98%	GG		
Sulfur Dioxide, liq., 46psi	FN		

The information contained herein is typical and to the best of our knowledge accurate and indicative of the results that can be obtained by testing in an accredited laboratory. The buyer or user of these products is solely responsible for determining whether these products are suitable for any intended use and for its proper installation and use.



P.O. Box 8069 Clinton, LA 70722 (800) 272-2832 [www.pactecinc.com](http://www.pactecinc.com)

## ► 40 mil

Product Properties	Specification (Metric)	Test Method (ASTM)
Weight	28.6 oz/yd <sup>2</sup> (970g/m <sup>2</sup> )	D751
Thickness	41 mils (1.0 mm)	D751
Puncture Resistance	89 lbs (396 N)	D4833
Ball Burst	269 lbs (1200 N)	D751
Trap Tear	MD – 133 lbs (592 N) TD – 107 lbs (476 N)	D4533
Hydrostatic Resistance	233 psi (1600 kPa)	D751, Procedure A
Pyramid Puncture	100 lbs (445 N)	D5494
Tensile Property - Break Strength	MD – 405 lbs (1800 N) TD – 385 lbs (1700 N)	D751, Procedure A
Tensile Property - Elongation	MD – 1007% TD – 964%	D751, Procedure A
Abrasion	>40000 cycles	D3884
Low Working Temp	-106°F (-77°C)	D746
High Working Temp	160°F (71°C)	

The information contained herein is typical and to the best of our knowledge accurate and indicative of the results that can be obtained by testing in an accredited laboratory. The buyer or user of these products is solely responsible for determining whether these products are suitable for any intended use and for its proper installation and use.

## **APPENDIX J**

### ***Waste Analysis Plan Documentation & SOPs***



## WASTE PROFILE FORM

For assistance in completing this document or for additional information on service offerings, please visit our website at [www.usecology.com](http://www.usecology.com), or call 800-592-5489.

**US Ecology will choose the appropriate facility and method of waste management for your waste from the technologies offered at each operation.**

If you wish to direct this waste to a specific facility(s) or treatment technology please indicate here:

**Waste Common Name:** \_\_\_\_\_

### Section 1 – Generator & Customer Information

Generator EPA ID # \_\_\_\_\_

NAICS/SIC Code \_\_\_\_\_

Generator \_\_\_\_\_

Facility Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**24-hour Emergency Response Number**

\_\_\_\_\_

Mailing Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Generator Contact \_\_\_\_\_

Title \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_

E-mail \_\_\_\_\_

Internal Use Only: EQ Division \_\_\_\_\_

EQ Customer No. \_\_\_\_\_

**Invoicing Company** \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Country \_\_\_\_\_

Invoicing Contact \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_

Technical Contact \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_

Cell Phone \_\_\_\_\_

E-mail \_\_\_\_\_

### Section 2 – Shipping & Packaging Information

2.1) Shipping Volume & Frequency:

a) Volume of Waste to be Shipped: \_\_\_\_\_

b) Frequency: ☐ One time ☐ Month ☐ Year ☐ Other: \_\_\_\_\_

2.2) DOT Information

a) Is this a U.S. Department of Transportation (USDOT) Hazardous Material? ☐ Yes ☐ No

b) If "Yes", indicate the proper shipping name per 49CFR 172.101 Hazardous Materials Table:

\_\_\_\_\_

### Section 3 – Special Properties

3.1) Color \_\_\_\_\_

3.2) Odor ☐ None ☐ Ammonia ☐ Amines ☐ Mercaptans ☐ Sulfur ☐ Organic Acid ☐ Amines/Ammonia

☐ Other: \_\_\_\_\_

3.3) Consistency at 70°F: ☐ Solid ☐ Dust/Powder ☐ Debris ☐ Sludge ☐ Liquid ☐ Gas/Aerosol ☐ Varies

3.4) What is the pH? ☐ ≤2 ☐ 2.1-4.9 ☐ 5 – 10 ☐ 10.1 – 12.4 ☐ ≥12.5 ☐ N/A

3.5) What is the flash point? ☐ <90°F ☐ 90-139°F ☐ 140-199°F ☐ >200°F ☐ N/A

3.6) Does this waste exhibit any of the following properties? (check all that apply)

- |  |   |  |   |                                      |
|--|---|--|---|--------------------------------------|
| <input type="checkbox"/> None                                    | <input type="checkbox"/> Free Liquids       | <input type="checkbox"/> Metal Fines       | <input type="checkbox"/> Water Reactive   | <input type="checkbox"/> Biohazard   |
| <input type="checkbox"/> Shock Sensitive                         | <input type="checkbox"/> Oily Residue       | <input type="checkbox"/> Dioxins           | <input type="checkbox"/> Furans           | <input type="checkbox"/> Aluminum    |
| <input type="checkbox"/> Asbestos – non-friable                  | <input type="checkbox"/> Asbestos – friable | <input type="checkbox"/> Other Radioactive | <input type="checkbox"/> Air Reactive     | <input type="checkbox"/> Isocyanates |
| <input type="checkbox"/> Biodegradable Sorbents                  | <input type="checkbox"/> Pyrophoric         | <input type="checkbox"/> Reactive Sulfide  | <input type="checkbox"/> Reactive Cyanide | <input type="checkbox"/> Explosives  |
| <input type="checkbox"/> Temperature Controlled Organic Peroxide | <input type="checkbox"/> NORM               | <input type="checkbox"/> TENORM            |   |                                      |

#### Section 4 – Composition and Generating Process

4.1) Provide a physical and chemical composition of the waste (e.g. soil, water, PPE, debris, etc.). List the percent ranges of the material, either estimated or known.

\_\_\_\_\_ to \_\_\_\_\_%      \_\_\_\_\_ to \_\_\_\_\_%  
\_\_\_\_\_ to \_\_\_\_\_%      \_\_\_\_\_ to \_\_\_\_\_%

4.2) Provide a description of the generating process. *Remediation & IDW Sites: please provide a site history.*

4.3) Are there any known previous handling or treatment issues involving this waste? ☐ Yes\* ☐ No  
\*If yes, describe: \_\_\_\_\_

#### Section 5 – Hazardous Wastes

As determined by 40 CFR, Part 261 and State Rules:

Please list applicable waste code(s):

- 5.1) Is this waste exempted from RCRA? ☐ Yes, please provide exemption: \_\_\_\_\_ ☐ No
- 5.2) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes: \_\_\_\_\_ ☐ No  
a) For F006–F009, F012, does this come from a generator that conducts a cyanide plating process? ☐ Yes ☐ No
- 5.3) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☐ Yes: \_\_\_\_\_ ☐ No
- 5.4) Do any State Specific Hazardous Waste Codes apply? ☐ Yes: \_\_\_\_\_ ☐ No

**If you answered 'no' to 5.2, 5.3 and 5.4, please proceed to Section 6.**

5.5) EPA Source Code: \_\_\_\_\_ EPA Form Code: \_\_\_\_\_

5.6) Waste Code Determination Is Based On: ☐ Generator Knowledge ☐ Analysis ☐ MSDS  
*Analysis and/or MSDS may be required for review and approval for hazardous and non-hazardous waste streams.*

- 5.7) Does this waste exceed Land Disposal Restriction levels? ☐ Yes ☐ No
- a) Is this stream a wastewater (WW) or non-wastewater (NWW)? ☐ WW ☐ NWW
- b) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40CFR 268.49? ☐ Yes ☐ No
- c) Does this waste contain greater than 50% debris, by volume? ☐ Yes ☐ No  
(Debris is greater than 2.5 inches in size.)
- d) If the debris is larger than 3 ft x 3 ft x 3 ft, please provide the approximate dimensions and weight:

5.8) If this is a characteristic hazardous waste, does it contain Underlying Hazardous Constituents? ☐ Yes\* ☐ No

\*If Yes, please list: \_\_\_\_\_  
*For a complete list of UHC constituents, please refer to 40 CFR 268.48*

## Section 6 – Non-Hazardous Wastes

Please list applicable waste code(s): \_\_\_\_\_

- 6.1) Do any State Specific Non-Hazardous Waste Codes apply? ☐ Yes ☐ No \_\_\_\_\_
- 6.2) Is this a Universal (UNIV) waste or a Recyclable Good (RG)? ☐ UNIV ☐ RG ☐ N/A
- 6.3) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes ☐ No
- a) If yes, is the total halogen content of the used oil waste stream greater than 1,000 ppm? ☐ Yes ☐ No
- b) If yes, what is the source of the halogen content?
- ☐ This is a metalworking oil/fluid containing chlorinated paraffins.
- ☐ This is used oil contaminated with chlorofluorocarbons from refrigeration units.
- ☐ This oil contains halogenated solvents. List specific solvents: \_\_\_\_\_
- ☐ Other, describe: \_\_\_\_\_

## Section 7 – TSCA Information

- 7.1) What is the concentration of PCBs in the waste? ☐ None ☐ 0-49 ppm ☐ 50-499 ppm ☐ 500+ ppm
- 7.2) Does the waste contain PCB contamination from a source with a concentration  $\geq 50$  ppm? ☐ Yes ☐ No ☐ Unknown
- If you answered "none" or "0-49 ppm" to 7.1 and "no" to 7.2, please proceed to Section 8.**
- 7.3) Has this waste been processed into a non-liquid form? ☐ Yes\* ☐ No
- \*If yes, what was the concentration of PCBs prior to processing? ☐ 0-499 ppm ☐ 500+ ppm
- 7.4) Is this non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No
- 7.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No
- 7.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ N/A ☐ Yes ☐ No

## Section 8 – Clean Air Act Information

- 8.1) Is this waste subject to regulation under 40 CFR, Part 264, Subpart CC (VOC > 500 ppmw)? ☐ Yes ☐ No
- 8.2) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD (VOHAP > 500 ppmw)? ☐ Yes ☐ No
- 8.3) Is the site, or waste, subject to any other NESHAP/MACT standard(s)? ☐ Yes\* ☐ No
- \*If Yes this document serves as notification that this waste contains chemicals \_\_\_\_\_, \_\_\_\_\_ required to be managed in accordance with Part ☐ 61 ☐ 62 ☐ 63 Subpart \_\_\_\_\_ of NESHAP/MACT standards.
- 8.4) Does this waste stream contain Benzene? ☐ Yes ☐ No
- If you answered "no" to 8.4, please proceed to Section 9.**
- 8.5) Does the waste stream come from a facility subject to 40 CFR 61, Subpart FF (Benzene NESHAP)?

☐ Yes, please provide the SIC/NAICS code: \_\_\_\_\_ ☐ No

**If you answered "no" to questions 8.5, please proceed to Section 9.**

- 8.6) Does your facility manage the waste subject to Benzene NESHAP in a manner other than shipping off-site?
- ☐ Yes, please specify: \_\_\_\_\_ ☐ No
- 8.7) Is the generating source of this waste a facility with Total Annual Benzene (TAB)  $\geq 10$  Mg/year? ☐ Yes ☐ No
- 8.8) Does the waste contain >10% water? ☐ Yes ☐ No
- 8.9) What is the TAB quantity for your facility? \_\_\_\_\_ Mg/Year
- 8.10) What is the total Benzene concentration in your waste? \_\_\_\_\_ Percent or \_\_\_\_\_ ppmw.
- Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.**

## Section 9 – Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's personnel to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's personnel to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

**If I am an agent acting on behalf of the generator, I also certify that I have permission to sign any and all waste characterization paperwork on the generator's behalf and that I can produce such certification in writing upon request.**

Generator Signature \_\_\_\_\_ Printed Name \_\_\_\_\_

Company \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

## STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ – The Environmental Quality Company and/or its member companies (hereinafter “EQ”) related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Profile Form, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

### **Definitions**

The following definitions shall apply for purposes of this Agreement:

“**Acceptable Waste**” shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

“**Delivered Wastes**” shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii) ) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

“**Non-Conforming Wastes**” shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Profile Form and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Profile Form (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ’s price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

### **Control of Operations.**

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, “Waste Management Facility”), including, without limitation, maintaining EQ’s desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

### **Identification of Waste.**

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Profile Form containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ’s analysis of such representative sample of the waste material and such Waste Profile Form, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Profile Form.

### **Non-Conforming Wastes.**

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

### **Customer Warranty - Acceptable Wastes.**

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Profile Form. The information set forth in the Waste Profile Form or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

### **Customer Warranty - Title to Wastes.**

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

### **Customer Warranty - Compliance with Laws.**

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

### **Customer Warranty - Updating Information.**

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Profile Form, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

### **Customer Indemnity.**

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys’ fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ’s employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

### **Force Majeure**

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

### **Governing Laws**

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

### **Bulk Disposal Charges**

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.



Uniform Manifest No.: \_\_\_\_\_ LDR Page \_\_\_\_\_ of \_\_\_\_\_

I hereby certify that all information submitted on this and all associated documents, is complete and accurate to the best of my knowledge and information.

**Title:**

Date: \_\_\_\_\_







To: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 \_\_\_\_\_  
 Attention: \_\_\_\_\_

From: \_\_\_\_\_  
 Phone # : \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Sampler : \_\_\_\_\_

Sample ID	Sample Description	Grab/Comp	Date	Time	# Containers	Type	Size	Matrix	Preservation	Analysis Required

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Accepted by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Accepted by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Accepted by: \_\_\_\_\_ Date: \_\_\_\_\_

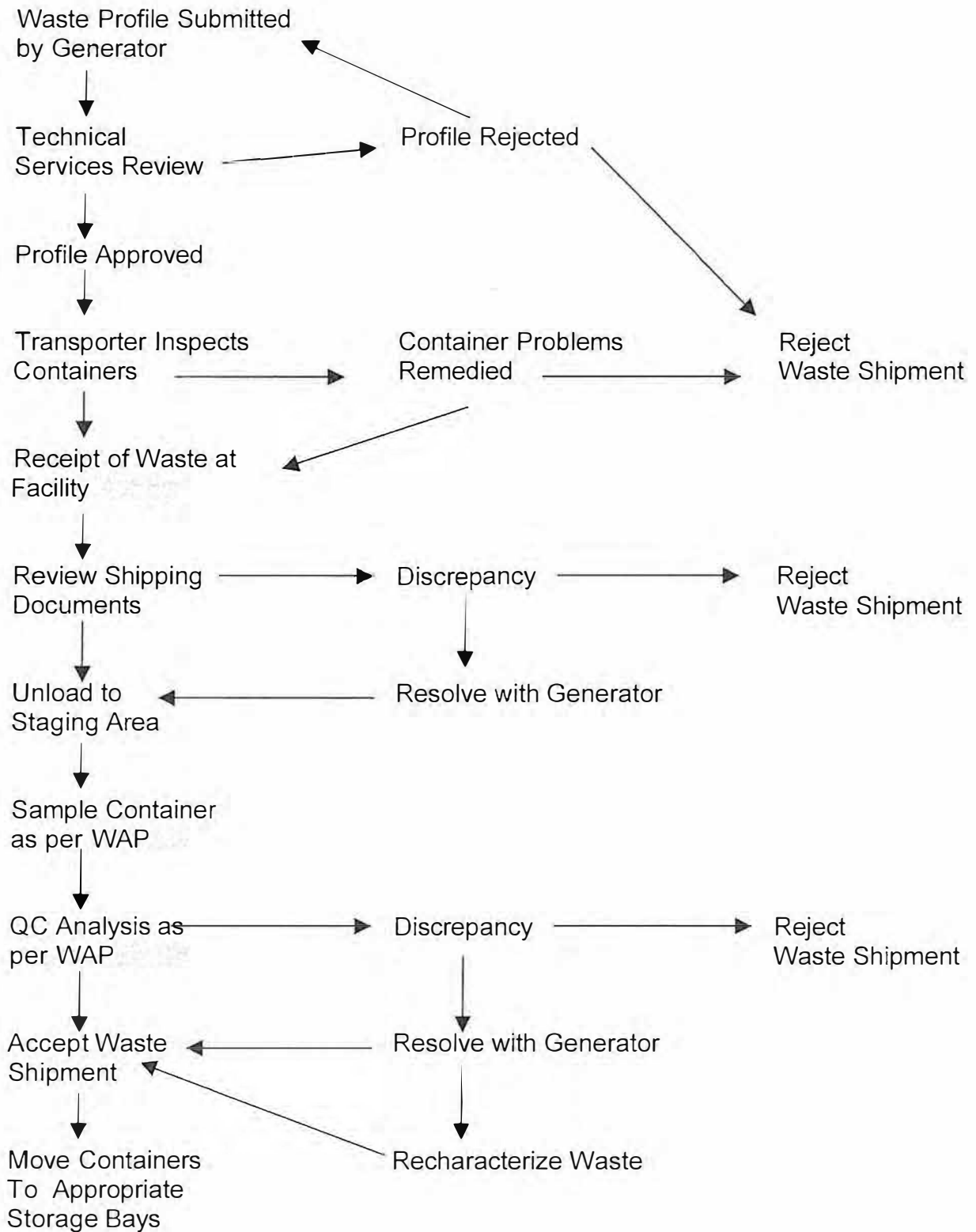
Lab Use Only		
Cold Pack	Yes	No
Headspace	Yes	No
Intact	Yes	No

Hazards Associated with Sample	
Flammable	_____
Corrosive	_____
Highly Toxic	_____
Other	_____

Matrix Code: **WW** = wastewater **SW** = surface water **GW** = ground water **DW** = drinking water **O** = oil **A** = air **SO** = soil **SL** = sludge  
 Preservation Code: **I** = ice **H** = (HCl) **S** = (H<sub>2</sub>SO<sub>4</sub>) **N** = (HNO<sub>3</sub>) **T** = (Sodium Thiosulfate)

Comments

US Ecology Tampa, Inc.  
Waste Screening Flow Chart





CONTAINER CONTENTS

☐ Drum

☐ Lab Pack

Drum #	Date:	Circle One: Virgin Product    Spent Material	Approval #:	Chemist:
Proper DOT Shipping Name:				
Hazard Class:	Packaging Group: I    II    III	UN / NA Number:	Container type:    DM    DF    CF 5 10 15 30 55 85 CYB	
Manifest #:				
	Material Description	Quantity	Size	EPA Waste Code
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
Chemist Verification_____ This Lab Pack list continues: Yes <input type="checkbox"/> No <input type="checkbox"/> This is page _____ of _____.				

WHITE - TSDF

CANARY - CUSTOMER

PINK - DRUM COPY

The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.

# US Ecology Tampa, Inc. Container Log - Process

Manifest/BOL: \_\_\_\_\_ Manifest Line: \_\_\_\_\_  
 Truck No.: \_\_\_\_\_  
 Transporter: \_\_\_\_\_  
 Generator: \_\_\_\_\_

\_\_\_\_\_ of \_\_\_\_\_  
 (# Container Logs per Truck)

Receipt ID: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Arrival Time: \_\_\_\_\_  
 Scheduled Time: \_\_\_\_\_  
 Non-Bulk Total Quantity: \_\_\_\_\_  
 Customer ID/Name: \_\_\_\_\_  
 PO: \_\_\_\_\_  
 Release: \_\_\_\_\_

Generating  
Process:

Approval: \_\_\_\_\_ DDVOC: \_\_\_\_\_ CCVOC: \_\_\_\_\_  
 Color: \_\_\_\_\_ Consistency: \_\_\_\_\_

Containers: \_\_\_\_\_ Quantity: \_\_\_\_\_  
 Air Permit Status: \_\_\_\_\_

Waste Common Name: \_\_\_\_\_  
 Treatment: \_\_\_\_\_

Approval Comments:

Spec Hand Instruct:

Manifest Comments:

Waste:  
 Secondary  
 Waste Codes:

DOT Shipping  
 Description:

Treatment  
 Comments:

Manifest Quantity:

pH	Color						Odor				Phase		Sp. G.	CN	CR6	NH3	RAD < BG	Solid %
Cont #	Actual Container Received							Plant	Compatibility			Treatment Tank Disposal						
	Size	Type	Weight	Liquid	Solid	CG	Sampler	Tank#	Date	Chemist	Tank#	Qty	Date	Time	Emp.	Comments	BarCode	
1																		

Safety Codes:





---

### ***Standard Operating Procedure (FL)***

---

Document Number:	OPS-OP-016-FLA	Issue Date:	12/5/07
Approving Authority:	Stuart Stapleton	Revision Date:	11/14/16
Job Title:	EHS Manager	Department:	OPS
		Review Date:	

---

**TITLE:       Liquids Bulking**

**PURPOSE:** To safely and correctly consolidate liquids into bulk 55 gal containers for ultimate disposal.

**SCOPE:** This procedure applies to US Ecology Tampa offices and jobsites.

---

#### **RESPONSIBILITIES:**

Operations Manager:

The Operations Manager is responsible for ensuring the success of this procedure and for all operations under his control.

The Operations Manager or his/her designee shall monitor the employees periodically to ensure they provide their employees with sufficient training and equipment to allow them to both understand and comply with this procedure.

EHS Manager:

The EHS Manager is responsible for providing technical information and ensuring a safe and healthy working environment.

Employees:

Employees are responsible for compliance with the requirements of this procedure.

---

#### **DEFINITIONS:**

---

#### **PROCEDURE:**

*The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.*

- 1.0 Stage all containers that are going to be processed into a process row.
  - 2.0 Check all E.P.A. waste codes. Using a handheld bar code scanner, scan each container to appropriate staging row.
  - 3.0 Set up Visqueen and solid waste bin at the dock.
    - 3.1 Set up an empty drum to pour into.
    - 3.2 Place a funnel on top of the drum.
    - 3.3 Ground the drum with a grounding cable.
    - 3.4 Set up a slash pail.
  - 4.0 Gear up in proper protective equipment (Tyvek, gloves & respirator) and open the first container.
  - 5.0 Remove container contents of drum onto cart and open one container at a time.
  - 6.0 Splash several ounces into a 5-gallon splash pail to ensure compatibility (if incompatible do not pour into drum. See a Chemist or Supervisor for assistance). Once you have ensured compatibility, pour the contents into the drum funnel.
  - 7.0 When the drum is  $\frac{3}{4}$  full, close the container and label with the proper waste and D.O.T. labels.
  - 8.0 Secure the lid and the ring and move the drum to an appropriate storage location. If the container is warm, loosen the bung until the container has cooled off.
  - 9.0 Repeat steps 5 & 6 until task is complete.
- 
- 

## **REFERENCES:**

## **ASSOCIATED DOCUMENTS:**

**RECORDS:** The cited records are retained in a manner that supports the requirements of the various local, State, and federal regulatory agencies to which USecology adheres.

### History of SOP Revisions:

Date	Approver	Change	Training required	
			Yes	No
11/14/16	SW	Change Author Approving Authority Updated Revision Date. Added - History of Revisions table.		X

*The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.*



---

### ***Standard Operating Procedure (FL)***

---

Document Number:	LAB-OP-008-FLA	Issue Date:	12/3/07
Approving Authority:	Shane Walker	Revision Date:	11/9/16
Job Title:	Lab Technician	Department:	LAB
		Review Date:	12/7/17

---

**TITLE:**        **Facility Waste Sampling**

**PURPOSE:** To ensure all incoming containers are properly marked and a representative sample is collected from each container.

**SCOPE:** This procedure applies to US Ecology Tampa offices and jobsites.

---

#### **RESPONSIBILITIES:**

Operations Manager:

The Operations Manager is responsible for ensuring the success of this procedure and for all operations under his control.

The Operations Manager or his/her designee shall monitor the employees periodically to ensure they provide their employees with sufficient training and equipment to allow them to both understand and comply with this procedure.

QEHS Manager:

The QEHS Manager is responsible for providing technical information and ensuring a safe and healthy working environment.

Employees:

Employees are responsible for compliance with the requirements of this procedure.

---

#### **DEFINITIONS:**

---

#### **PROCEDURE:**

*The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.*

- 1.0 Proceed to sampling area with sampling cart and set-up area (be sure drums are diked and separate from incompatibles and appropriate signs are in place per the permit requirements).
- 2.0 Prepare sample jars by placing one on each drum to be sampled. Mark sample lids and jars with LAB number, DOT hazard class, DATE sampled, and sampler's initials.
- 3.0 Put on appropriate safety equipment (**Level C**). Respiratory protection must be worn when opening any container.
- 4.0 Visually inspect the drums for integrity and proper RCRA, DOT and non-regulated labeling. Document container types and count for any discrepancies.
- 5.0 **Liquid and sludge sample:**
  - 5.1 Open the drum carefully, and slowly insert the sampling tube vertically until it reaches the bottom of the liquid portion.
  - 5.2 Cover the top of the tube with the thumb and form a vacuum, and carefully withdraw the tube.
  - 5.3 Collect the sample and drain the contents into a sample container.
  - 5.4 When sampling evacuated aerosol liquid drums, open bung(s) slowly and allow drum to vent at least 10 minutes. Use a self-filling ColiWasa, to prevent possible back pressure. Collect sample and let contents drain into sample container.
- 6.0 **Solid sample:**
  - 6.1 Open the drum, dig down at least two inches and take a sample.
- 7.0 If the drum contains liquids and solid parts, check the percent solid and liquid using the sampling tube and obtain the percent solids by sampling the bottom of the drum. The amount of solids and liquid portions should be described in inches.



- 8.0 Composite samples will be prepared in the drum area from the individual drum samples. Composites will be composed of individual samples, not to exceed 10 sub-samples per composite.
- 9.0 Poison drums will not be analyzed in our QC lab until a separate system is established. Poison drums should be opened and inspected and checked using a pH test strip.
- 10.0 Close container immediately after sampling.
- 11.0 Bring the samples and receiving report to the lab and notify lab personnel of any discrepancies upon delivery of samples.
- 12.0 Place drums in their appropriate storage location according to hazard class and remove sampling signs.
- 13.0 If any problems or questions arise, contact your supervisor or the Lab Manager immediately.
- 14.0 DO NOT START TO BULK / OR LOAD ANY DRUM WITHOUT THE APPROVAL OF THE LAB MANAGER OR FACILITY MANAGER.
- 15.0 In the event a modification from the above procedure is requested, the Laboratory Manager or the Facility Manager must approve it.
- 16.0 All samplers using the above procedure must be trained and documented by the Lab Manager or the Facility Manager, or an experienced trainer as designated by the Laboratory Manager.
- 17.0 If sampling a Tanker, Sludge Box, Vacuum Truck, following above procedure except use a core auger sampler for the taking the sample.
- 18.0 The following waste types will receive a visual inspection only:

*The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.*

- 18.1 Propane Cylinders
- 18.2 Other gas Cylinders
- 18.3 Aerosol Cans
- 18.4 State of Florida Universal Waste
- 18.5 Labpacks
- 18.6 PCB Waste

19.0 Samples that fail QC will be put on hold in EQAI.

The EQAI Post Inspection Sheet will be used to verify that each receipt/approval is sampled in accordance with this procedure.

---

**REFERENCES:**

**ASSOCIATED DOCUMENTS:**

**RECORDS:** The cited records are retained in a manner that supports the requirements of the various local, State, and federal regulatory agencies to which USecology adheres.

**History of SOP Revisions:**

Date	Approver	Change	Training required	
			Yes	No
11/9/16	SW	Changed Document Format Changed Plant Manager Operations Manager		X
12/7/17	SW	Changed review date		X

*The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.*



---

### ***Standard Operating Procedure (FL)***

---

Document Number:	LAB-OP-012-FLA	Issue Date:	12/6/07
Approving Authority:	Shane Walker	Revision Date:	11/9/16
Job Title:	Lab Technician	Department:	Lab
		Review Date:	

---

**TITLE:**       **Hazcat Procedures**

**PURPOSE:** To properly and safely identify hazard class information on unknown chemicals.

**SCOPE:** This procedure applies to US Ecology Tampa offices and jobsites.

---

#### **RESPONSIBILITIES:**

Operations Manager:

The Operations Manager is responsible for ensuring the success of this procedure and for all operations under his control.

The Operations Manager or his/her designee shall monitor the employees periodically to ensure they provide their employees with sufficient training and equipment to allow them to both understand and comply with this procedure.

QEHS Manager:

The QEHS Manager is responsible for providing technical information and ensuring a safe and healthy working environment.

Employees:

Employees are responsible for compliance with the requirements of this procedure.

---

#### **DEFINITIONS:**

---

#### **PROCEDURE:**

*The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.*

## 1.0 pH Test

- 1.1 Introduce a drop of sample onto a pH strip
- 1.2 Compare to the pH chart to obtain the unknown.

## 2.0 Oxidizer Test

- 2.1 Wet a Potassium Iodide starch paper with one drop of 3N HCl
- 2.2 Add one drop of the sample onto the starch paper.
- 2.3 If the paper turns **purple-black**, oxidizer is present.

## 3.0 Sulfide Test

- 3.1 Wet a Lead Acetate starch paper with one drop of 1:1 HCl
- 3.2 Add one drop of the sample onto the starch paper.
- 3.3 If the paper turns **brown- black**, sulfide is present

## 4.0 Cyanide Test

- 4.1 Place 5 drops of sample into a small test tube.
- 4.2 Add 5 drops of CN Reagent #1.
- 4.3 Add 5 drops of CN Reagent #2.
- 4.4 Add 5 drops of CN Reagent #3.
- 4.5 Gently, shake the test tube and let it stand for 10 seconds.
- 4.6 A color change to **pink or red** indicates the present of cyanide.

## 5.0 Ignition Potential (Flash Point)

- 5.1 Introduce 2 ml of sample into an aluminum disc.
- 5.2 Light up a burne or flame source and hold the flame immediately above the test sample without touching the visible flame to the sample for at least 10 seconds.
- 5.3 If the sample is ignites, the flammability is report as positive.

## 6.0 Mercury Test

- 6.1 Add few drops of sample onto aluminum disc.
- 6.2 Remove a red cap from a MercuryCheck Swabs.
- 6.3 Crush swab in center of paper sleeve.
- 6.4 Squeeze until fluid shows on tip.
- 6.5 Rub test area approximately 30 seconds.
- 6.6 If the tip turns **purple**, mercury is present.

## 7.0 Cadmium Test

- 7.1 Add few drops of sample onto aluminum disc.

*The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.*

- 7.2 Crush at "A" and "B" of Cadmium Check Swabs.
- 7.3 Squeeze until purple shows on tip.
- 7.4 Rub test area approximately 30 seconds.
- 7.5 If the tip turns **Peach**, Cadmium is present.

#### 8.0 Silver Test

- 8.1 Obtain one silver strip from Silver Roll.
- 8.2 Immerse the reaction zones of the test strip in the solution for one second.
- 8.3 Shake off the excess liquid and compare with the color scale after 30 seconds.

#### 9.0 Iron Test

- 9.1 Obtain one Iron strip from Iron Roll.
- 9.2 Immerse the reaction zone in the solution (1-7) for 1 sec.
- 9.3 Shake off excess liquid from the strip.
- 9.4 Wait 10 seconds, compare with the color scale, and read off result.

#### 10.0 Chlorine Test

- 10.1 Obtain one chlorine paper from Chlorine Test Roll.
- 10.2 Dip about one inch of a test paper in the water to be tested and remove immediately.
- 10.3 The color turns purple, chlorine is present.

#### 11.0 Peroxide Test

- 11.1 Obtain one peroxide strip from Peroxide Test Roll.
- 11.2 Immerse the reaction zone in the solution for 1 second.
- 11.3 Shake off excess liquid from the strip.
- 11.4 Compare the color scale after 15 seconds.

#### 12.0 Solubility Test

- 12.1 Add 5 drops of sample into a test tube.
- 12.2 Add 5 drops of DI water into the same test tube.
- 12.3 Mix thoroughly and let it sit for 30 seconds.
- 12.4 If one layer formed, then it is soluble. If there is more than one layer, then the sample is not soluble in water.

#### 13.0 Classifying DOT Classes

- 13.1 Performing a pH test on an unknown, if pH is <2.5 or >12.5, give D002 code.

*The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.*

- 13.2 Perform ignition Potential test, if positive then give an unknown a D001 code.
- 13.3 If negative then go on for metals test and perform all strip metals

---

**REFERENCES:**

**ASSOCIATED DOCUMENTS:**

**RECORDS:** The cited records are retained in a manner that supports the requirements of the various local, State, and federal regulatory agencies to which USecology adheres.

**History of SOP Revisions:**

Date	Approver	Change	Training required	
			Yes	No
11/9/16	Shane Walker	1. Revised Document Format 2. Changed Plant Manager Operations Manager		X

*The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.*





---

### ***Standard Operating Procedure (FL)***

---

Document Number:	OPS-OP-071-FLA	Issue Date:	11/14/14
Approving Authority:	Stuart Stapleton	Revision Date:	11/17/17
Job Title:	EHS Manager	Department:	OPS
		Review Date:	

---

**TITLE:** Hazardous Waste Treatment

**PURPOSE:** To ensure proper handling of all materials entering the hazardous waste treatment process and confirm that operations are performed in a safe, compliant, and efficient manner.

**SCOPE:** The procedure applies to the following activities that take place in the Hazardous Waste Treatment Tank in the Waste Processing Building. Off-loading and temporary staging of hazardous waste, addition of hazardous waste, and chemical reagents into the tank, post process cleaning of the treatment tank and excavator bucket, and sampling and analysis of the completed batch

---

### **RESPONSIBILITIES:**

Operations Manager: The Operations Manager is responsible for the development, training, implementation, monitoring, and periodic review of this procedure.

The Operations Manager or designee shall monitor all affected employees periodically to ensure proper compliance with this procedure. Employees will be provided with sufficient training and equipment to allow them to both understand and comply with this SOP.

Employees: Employees are responsible for complying with, and following, the hazardous stabilization SOP. Employees must also take an active role in the periodic review and improvement of the procedure.

---

### **DEFINITIONS:**

*The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.*

---

## PROCEDURE:

### 1. General

1.1. The following hazardous waste codes are permitted for hazardous waste treatment:

1.1.1. **D002**

1.1.2. **D004**

1.1.3. **D005**

1.1.4. **D006**

1.1.5. **D007**

1.1.6. **D008**

1.1.7. **D009** (Low Mercury as defined in 40 CFR 268 Subpart D)

1.1.8. **D010**

1.1.9. **D011**

1.1.10. **K062**

1.2. The following treatment groups are permitted for hazardous waste treatment:

1.2.1. **1012** AL Chrome-Neut/Stab-Sub D

1.2.2. **1016** AL Min-Neut/Stab-Sub D

1.2.3. **1006** AH Min-Neut/Stab-Sub D

1.2.4. **1023** AOrg-Neut/Stab-Sub D

1.2.5. **1358** ASolid-NeutralSP-Sub D

1.2.6. **1415** AMix-NeutralSP-Sub D

1.2.7. **1014** AL HF-Neut/Stab-Sub D

1.2.8. **1018** AL Nitric-Neut/Stab-Sub D

1.2.9. **1035** BLiquid-Neut/Stab-Sub D

1.2.10. **1366** BSludge-Neut/Stab-Sub D

1.2.11. **1547** BAmmonia-Neut/Stab-Sub D

1.2.12. **1035** BDegrease-Neut/Stab-Sub D

1.2.13. **1625** BSolid-NeutralSP-Sub D

1.2.14. **1052** CMet Liq-Stab-Sub D

*The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.*

- 1.2.15. **1057** CMet Sol-Stab-Sub D
- 1.2.16. **1125** KAcid-Dpack-Sub D
- 1.2.17. **1129** KBase-Dpack-Sub D
- 1.2.18. **1156** KToxic-Dpack-Sub D
- 1.2.19. **1009** AH Nitric (K062) – Neut/Stab-Sub D
- 1.2.20. **1917** AH Chrome-Neut/Stab-Sub D

1.3. The Personal Protective Equipment Program (EHS-PR-019-COR) and the Respiratory Protection Program (EHS-PR-029-COR) must be adhered to for all treatment operations. At a minimum the following levels are required for the following treatment operations:

- 1.3.1. Sampling – Level C
- 1.3.2. Processing Containers – Level C
- 1.3.3. Treatment – Level C
- 1.3.4. Off-loading bulk containers into treatment tank – Level C
- 1.3.5. Loading bulk containers after treatment – Level C
- 1.3.6. Housekeeping - Level D
- 1.3.7. Off-loading container trailers – Level D
- 1.3.8. Daily Inspection – Level D

1.4. The waste processing area and treatment tank must be inspected daily using the Waste Processing Building Inspection Log (OPS-FM-017-FLA).

## **2. Container Selection and Preparation**

- 2.1. Candidate containers of hazardous waste potentially amenable for treatment in the on-ground hazardous waste treatment tank are selected from the current inventory and reviewed by the Operations Manager or designee prior to compatibility and bench testing in the on-site lab.
- 2.2. Collect a representative sample from each of the selected candidate containers and forward them to the lab for compatibility and bench testing.
  - 2.2.1. Liquids – 100% of each wastestream's containers; and
  - 2.2.2. Solids – 100% of each wastestream's containers unless otherwise specified by the Operations Manager or designee.
- 2.3. Complete the Treatment Container Log (OPS-FM-098-FLA) for each selected container. The Treatment Container Log includes the following information:

*The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.*

- 2.3.1. Shipping Name;
  - 2.3.2. Trailer Number;
  - 2.3.3. Start Date;
  - 2.3.4. Stock or Receipt Number;
  - 2.3.5. Approval Number;
  - 2.3.6. Weight;
  - 2.3.7. Size;
  - 2.3.8. Waste Codes;
  - 2.3.9. Treatment Group; and
  - 2.3.10. Technician Initials.
- 2.4. Using an approved scanner, scan each container's barcode and enter the container's data into a newly created staging row in EQAI.
- 2.4.1. The trailer ID# of the trailer being loaded shall be used when naming newly created staging rows.
- 2.5. Load the containers onto the designated trailer for transportation to the Waste Processing Building.
- 2.6. Count the containers on the trailer and verify that the count matches all of containers identified on the Treatment Trailer Log and the new staging row.
- 2.7. Attach the Treatment Trailer ID Tag (OPS-FM-087-FLA) on the front of the trailer indicating the following:
- 2.7.1. Trailer #; and
  - 2.7.2. Start Date.
- 2.8. The Operations Manager, or designee, must review and approve the Treatment Container Log prior to releasing the trailer for transportation to the Waste Processing Building.
- 2.9. When the Operations Manager releases the Treatment Trailer, complete the Treatment Trailer ID Tag with the following:
- 2.9.1. Container Count; and
  - 2.9.2. Total Gallons

### **3. Bench Testing**

- 3.1. The bench testing determines waste compatibility and the prescribed sequence that the waste and reagents are added to the treatment tank in order to ensure complete treatment. This sequence shall be followed when adding the waste containers to the treatment tank. During this process a Bench Test Log (LAB-FM-050-FLA) is completed to track pH, Reagents added, Temperature, and description of the reaction.

*The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.*

- 3.2. The bench testing results shall be distributed by the QA/QC Chemist to the Operations Manager, EHS Manager, Operations Supervisor, and Waste Processing Lead Coordinator for review.
- 3.3. Based on the bench test results, pH monitoring, and established solubility curves, a Treatment Processing Sheet (OPS-FM-088-FLA) is developed.
- 3.4. The approved Treatment Processing Sheet is forwarded to the Waste Processing Lead Coordinator for processing.

#### **4. Staging and Verification**

- 4.1. After the Operations Manager, or designee, has released the trailer, move the trailer to the Waste Processing Building.
- 4.2. Off-load the trailer and stage the containers in the Waste Processing Building.
  - 4.2.1. The containers must be segregated by hazard class.
  - 4.2.2. Once the containers have been staged, they must not exceed a total of 4400 gallon and counted toward the storage inventory on the daily inspection.
- 4.3. The Waste Processing Lead Coordinator or designee creates a batch in EQAI.
  - 4.3.1. A Waste Processing Technician, shall scan each container's barcode and enter the container's data into the newly created batch in EQAI.
    - 4.3.1.1. EQAI will give an error message for any treatment groups and/or waste codes that are not permitted to be processed.
    - 4.3.1.2. Containers that trigger an error are isolated and sent back to the Container Storage Building for review.
  - 4.3.2. The Waste Processing Lead Coordinator, or designee, shall print a copy of the EQAI Batch Detail Report once the data has been entered.
  - 4.3.3. Count the off-loaded containers and verify that the count matches the containers identified on the Treatment Trailer Log and the printed EQAI Batch Detail Report.
- 4.4. The Waste Processing Lead Coordinator, or designee, must review the following documents prior to approving the batch containers for treatment:
  - 4.4.1. Treatment Container Log; and
  - 4.4.2. The EQAI Batch Detail Report.
- 4.5. Once the batch has been approved for treatment, the Waste Processing Lead Coordinator, or designee, must sign the Treatment Container Log acknowledging their review.

## 5. Processing

5.1. The waste and reagents are placed in the treatment tank as prescribed by the approved Treatment Processing Sheet and thoroughly mixed to a uniform and homogenous consistency using an excavator.

5.1.1. Fugitive particulate air emissions while handling dusty materials may be controlled using the following methods;

5.1.1.1. Water can be added to the mixing container prior to materials being introduced, water can be added to the containers prior to introduction to the mixing container, or a fine spray mist over the hazardous waste treatment tank when charging the batch. Dusty wastes should be introduced and mixed in a manner that helps reduce the amount of dust emission. During high winds of 12 mph sustained or 25 mph gusts, where particulate matter is not feasible to control, processing should cease for 30 minute intervals.

5.1.2. The bucket of the excavator shall be decontaminated before use in the solidification tank for non-regulated waste processing. To be considered "clean" the bucket must be free of residual contaminants on the surface. The use of tools such as a water hose or power washer should be utilized. All decontamination procedures will be conducted over the hazardous waste treatment tank.

5.2. The treatment process is complete when all of the reagents have been added to the waste according to the recipe outlined on the Treatment Processing Sheet, the material has been mixed thoroughly, and all free liquids have been removed.

5.3. The Waste Processing Building Lead Coordinator, or designee, completes the Batch Processing Sheet (OPS-FM-092-FLA) after treatment in order to track time and material used. The completed Batch Processing Sheet is forwarded to the Operations Manager for review.

5.4. When the treatment is complete, a representative sample of the treated waste is collected and taken to the QA/QC Technician, or designee.

5.4.1. Using the Paint Filter Test Log (LAB-FM-004-FLA), the on-site lab conducts a Paint Filter Test, in accordance with Method 9095B, on the collected sample to demonstrate that the waste has no free liquids remaining in the mixture.

5.5. If the material fails the Paint Filter Test, additional reagent will be added to the mixture to ensure that all free liquids have been removed.

5.5.1. Amend the Batch Processing Sheet to indicate the additional reagent that was added to the mixture.

5.5.2. A new sample of the material shall be collected and retested.

5.6. If the material passes the Paint Filter Test:



- 5.6.1. The remaining sample is prepared and sent off-site to a NELAP/NELAC certified lab for TCLP and UTS analysis.
- 5.6.2. The treated waste is removed from the treatment tank and placed into roll-off boxes (usually 2-4 boxes per batch).
  - 5.6.2.1. Roll-off boxes must be lined prior to loading the treated waste into the roll-off box.
  - 5.6.2.2. Roll-off boxes must be properly tarped prior to exiting the Waste Processing Building and being placed in storage.
- 5.6.3. A Treated Hazardous Waste ID tag (OPS-FM-091-FLA) is applied to each roll-off box in the batch. The ID tag identifies the roll-off box as hazardous waste pending analysis and includes the following information:
  - 5.6.3.1. Accumulation start date;
  - 5.6.3.2. HazBox Tracking #;
  - 5.6.3.3. Roll-off #; and
  - 5.6.3.4. The roll-off box container count (ex., 1 of X, 2 of X, etc.).
- 5.7. Each roll-off box is moved from the Waste Processing Building and placed into storage with the 10-Day Transfer and Inbound/Outbound Staging Area (SWMU 11).

## **6. Treatment Verification**

- 6.1. When the TCLP results are received from the off-site lab (usually within 2-business days of sample submittal), the Operations Manager and designee must review the analytical results and compared them to the UTS table for inorganic constituents under 40 CFR 268.48. Once reviewed, a determination is made on whether the batch has been de-characterized and have met the Universal Treatment Standards (UTS). Treated K062 waste will be verified in the same manner; the analytical results will be reviewed to determine that the batch no longer exhibits the characteristics of hazardous waste and have met the Universal Treatment Standards (UTS).
- 6.2. If the analytical results indicate that the batch has failed for either the TCLP or UTS:
  - 6.2.1. The batch and its associated roll-off boxes must maintain their original Treated Hazardous Waste ID tags.
  - 6.2.2. A treatment recipe is developed based on the failed treatment analysis.
  - 6.2.3. Treat the waste in accordance with the recipe.

6.3. If the analytical results of treated characteristic waste (D002 and D004 through D011) indicate that both the TCLP and UTS have been met, further treatment is not required and the Treated Hazardous Waste is now identified as Treated Non-Hazardous Waste. If the analytical results of the treated "listed" waste (K062) indicate that both the TCLP and UTS have been met, further treatment is not required and the Treated Hazardous Waste is now identified as Treated Non-Hazardous Waste.

6.3.1. Two approved designees must sign the Final Disposal Approval form (OPS-FM-089-FLA) to release the waste for final disposal. The Final Disposal Approval form contains the following information:

6.3.1.1. Date;

6.3.1.2. HazBox Tracking #

6.3.1.3. Container #'s

6.3.2. When the signed Final Disposal Approval or written notification, i.e. email, has been received, the original Treated Hazardous Waste ID tags are removed from each roll-off box and replaced with Treated Non-Hazardous Waste ID tags (OPS-FM-096-FLA), which includes the following information:

6.3.2.1. The accumulation start date;

6.3.2.2. HazBox Tracking #

6.3.2.3. Roll-off #; and

6.3.2.4. The roll-off box container count (ex., 1 of X, 2 of X, etc.).

6.4. Generally, all treated non-hazardous waste is shipped off-site to an approved Subtitle D landfill within 10-business days of passing both the TCLP and UTS and being approved for final disposal.

6.5. Treated non-hazardous waste analytical results are supplied to the Subtitle D landfill upon request.

## **7. Record Retention**

7.1. All records associated with this SOP shall be collected, scanned into EQAI, and / or filed in the Waste Processing Lead Coordinator's office and made available for review upon request.

---

### **• DEFINITIONS:**

Treatment Reagents: Includes, but is not limited to, cement kiln dust (CKD), bed ash, fly ash, lime, bleach, water, ferrous sulfate, and sodium sulfide.

---

**REFERENCES:** 40 CFR 268 Subpart D – Treatment Standards

SW-846 - Test Methods for Evaluating Solid Waste,  
Physical/Chemical Methods

Method 9095B – Paint Filter Liquids Test

**ASSOCIATED DOCUMENTS:**

OPS-FM-017-FLA Waste Processing Building Inspection Log

OPS-FM-098-FLA Treatment Container Log

OPS-FM-087-FLA Treatment Trailer ID Tag

LAB-FM-050-FLA Bench Test Log

OPS-FM-088-FLA Treatment Processing Sheet

LAB-FM-004-FLA Paint Filter Test Log

OPS-FM-091-FLA Treated Hazardous Waste Roll-Off ID Tag

OPS-FM-089-FLA Final Disposal Approval

OPS-FM-096-FLA Non-Hazardous Waste Roll-Off ID Tag

OPS-FM-097-FLA Roll-Off Containment Log

OPS-FM-092-FLA Batch Processing Sheet

OPS-FM-093-FLA Batch Retreat Processing Sheet

**RECORDS:** The cited records are retained in a manner that supports the requirements of the various local, State, and federal regulatory agencies to which USecology adheres.

**History of SOP Revisions:**

Date	Approver	Change	Training required	
			Yes	No
12/08/16	SW	Update document format Update Revision		X
11/17/17	SW	Remove proposed from section 1.1.10 Added 1917 waste code Changed section 2.2.2 Solids 10% Solids 100% Changed 24 hours 4400 gallons		X

*The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.*



### ***Work Instruction***

---

Document Number:	OPS-WI-025-FLA	Issue Date:	9/25/18
Author:	Ken Dean	Revision Date:	
Job Title:	EHS Compliance Specialist	Department:	Operations

---

**TITLE:**        **Decontamination of Process Equipment and Mixing Tanks**

**PURPOSE:** To ensure the appropriate steps are taken to decontaminate process equipment and pits.

**SCOPE:**     All employees responsible for the decontamination of processing equipment and pits

**RESPONSIBILITIES:**

Supervisor: To ensure that all practices and procedure are carried out in compliance with the protocol.

Operator: To follow all practices and procedures specified in the protocol.

---

**PROCEDURE:**

**I. Decontamination of Contaminated Equipment**

- a) Listed (F, P, U, or K codes)\_Hazardous Waste Contaminated Equipment

Working surfaces contacted by listed wastes must be visually clean. This may be accomplished by:

- Scraping using hand tools or power equipment,
- Washing and/or power washing with water to effect a clean working surface.

**All removed materials, and wash waters, must be processed as listed waste.**



b) Characteristic (D Codes) Hazardous Waste Contaminated Equipment

Working surfaces contacted by Characteristic waste must be visually clean. This may be accomplished by:

- Scraping using hand tools or power equipment,
- Washing and/or power washing with water to effect a clean working surface.

**All removed materials, and wash waters, may be processed as Characteristic or Listed waste.**

c) Equipment contaminated with soil that qualifies for the 10x alternate treatment standard.

Working surfaces contacted by Soil waste must be visually clean. This may be accomplished by:

- Scraping using hand tools or power equipment,
- Washing and/or power washing with water to effect a clean working surface.

**All removed materials, and wash waters, must be processed as Listed or Characteristic waste dependent on the codes applicable to the Soil Exclusion waste.**

II. **Decontamination of Mixing Tanks** – determination of when to decontaminate a mixing tank is based on procedure going from a less stringent requirement to a more stringent requirement (such as a NH to Characteristic (D code) or D code to Listed (F, P, U, or K code)

- a) **Last contained Listed (F, P, U, or K codes) Tank** - A tank that last contained a listed waste needs to be decontaminated by mechanical means followed by rinsing the tank with water to a clean working surface.
- b) **Last contained Non-regulated or Characteristic (D Codes) to Listed (F, P, U, or K codes) Tank** - A tank that is going from non-regulated or characteristic to a listed waste will not need to be decontaminated



- c) **Last contained Characteristic (D Codes) to Non-Regulated or 10 X Tank** - A tank that is going from characteristic to non-regulated or from characteristic to 10 X alternate treatment will need to be decontaminated by scraping the tank clean by mechanical means.

All waste generated from the tank decontamination process will need to be disposed in compliance with the procedures outlined for decontamination of process equipment.

### **III. Documentation**

- a) A Decontamination Log (OPS-FM-105-FLA) will be completed as appropriate and initialed by US Ecology Tampa personnel to document appropriate decontamination has been achieved.
- b) The Decontamination Record will be filed as part of the operation record.

---

#### **DEFINITIONS:**

**Decontamination** – the removal of material from process equipment or tanks

**Process Equipment** – any piece of equipment used in the process of handling hazardous waste. This equipment includes, but is not limited to: crane bucket, blenders, track hoe, and backhoe buckets

**Mixing Tank** – permitted tanks used for liquids and solids processing

---

**REFERENCES:** None

#### **ASSOCIATED DOCUMENTS:**

OPS-FM-105-FLA Decontamination Log

**RECORDS:** The cited records are retained in a manner that supports the requirements of the various Local, State, and Federal Regulatory Agencies to which US Ecology adheres.

*The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.*





---

### ***Standard Operating Procedure***

---

Document Number:	OPS-OP-078-FLA	Issue Date:	05/11/16
Approving Authority:	Ken Dean	Revision Date:	07/27/16
Job Title:	Ops. Manager	Department:	OPS
		Review Date:	09/28/16

---

**TITLE:** Crack/Gap Program

**PURPOSE:** To identify and repair all visible cracks and gaps in the asphalt pavement located in the Bulk Container Storage Area (BCSA), 10-Day Transfer Facility, and the Inbound/Outbound (I/O) Staging Areas.

**SCOPE:** Applies to the asphalt pavement located in the Bulk Container Storage Area (BCSA), 10-Day Transfer Facility, and the Inbound/Outbound (I/O) Staging Areas and will be implemented upon issuance of modified permit.

---

#### **RESPONSIBILITIES:**

Operations Manager: Responsible for ensuring that daily inspections are completed and indicate any cracks in the Bulk Container Storage Area (BCSA), the 10-Day Transfer Facility AND the Inbound/Outbound (I/O) Staging Area inspection form.

EHS Manager: Responsible for coordinating the "Cracks & Gaps" program.

---

#### **DEFINITIONS:**

Crack /Gap: A disturbance in the asphalt pavement surface that indicates excessive wear, gouges, pitting, or exposed base. This does not include superficial surface disturbances.

---

## PROCEDURE:

### 1. Crack/Gap Identification

- 1.1. Indicate the location of the crack/gap on the Bulk Container Storage Area (BCSA), Waste Process Building (WPB), 10-Day Transfer Facility and the Inbound/Outbound (I/O) Staging Area inspection form (OPS-FM-017-FLA).

### 2. Crack/Gap Repair and Recordkeeping

- 2.1. Repair of identified crack/gap is to be prioritized based on severity, risk to the environment, employee health and safety, and/or asset protection. In some instances (e.g., large surface area, severe damage), asphalt may be replaced.
- 2.2. The date and the material used to fill the crack/gap is to be recorded on the inspection form.
- 2.3. Each crack/gap in need of repair will have asphalt patch/caulk applied in a sufficient amount to eliminate the crack/gap.

---

## REFERENCES:

**ASSOCIATED DOCUMENTS:** OPS-FM-017-FLA

**RECORDS:** The cited records are retained in a manner that supports the requirements of the various local, State, and federal regulatory agencies to which US Ecology adheres.

### History of SOP Revisions:

Date	Approver	Change	Training required	
			Yes	No
9/28/16	S. Stapleton	Formatted to new SOP template.		X

## **APPENDIX K**

### ***In-Bound Waste Shipment Records & Waste Characterization Reports***

## Inbound Containers Summary by Treatment, Size CY2017

US Ecology Tampa, Inc.

Treatment: 1006 AH Min-Neut/Stab-Sub D (D002, D004-D011)

Container Size	# Containers	Weight
Missing Container Size	3	0.000
DM05 Containers	58	959.000
DM10 Containers	1	40.000
DM15 Containers	4	395.000
DM20 Containers	5	1,429.000
DM30 Containers	11	1,934.000
DM55 Containers	150	56,155.000
DM85 Containers	12	5,523.000
LBS Containers	7	2,050.000
T250 Containers	14	50,485.000
T275 Containers	63	156,649.000
T330 Containers	1	2,940.000

<b>Total # Containers for Treatment 1006 AH Min-Neut/Stab-Sub D:</b>	<b>329</b>	<b>278,559.000</b>
--	------------	--------------------

Treatment: 1009 AH Nitric-Neut/Stab-Sub D (D002, D004-D011)

Container Size	# Containers	Weight
DM05 Containers	1	64.000
DM55 Containers	20	8,165.000

<b>Total # Containers for Treatment 1009 AH Nitric-Neut/Stab-Sub D:</b>	<b>21</b>	<b>8,229.000</b>
---	-----------	------------------

Treatment: 1012 AL Chrome-Neut/Stab-Sub D (D002, D004-D011)

Container Size	# Containers	Weight
DM05 Containers	2	45.000
DM55 Containers	122	56,535.000
T275 Containers	12	28,189.000

<b>Total # Containers for Treatment 1012 AL Chrome-Neut/Stab-Sub D:</b>	<b>136</b>	<b>84,769.000</b>
---	------------	-------------------

Treatment: 1014 AL HF-Neut/Stab-Sub D (D002, D004-D011)

Container Size	# Containers	Weight
DM15 Containers	7	1,008.000
DM30 Containers	1	168.000
DM55 Containers	71	33,387.000
DM85 Containers	1	555.000
T275 Containers	4	8,169.000

<b>Total # Containers for Treatment 1014 AL HF-Neut/Stab-Sub D:</b>	<b>84</b>	<b>43,287.000</b>
---	-----------	-------------------

Treatment: 1016 AL Min-Neut/Stab-Sub D (D002, D004-D011)

Container Size	# Containers	Weight
CYB Containers	1	884.000
DM05 Containers	139	1,926.500
DM15 Containers	14	1,811.000
DM30 Containers	11	1,534.000
DM55 Containers	311	132,444.000
DM85 Containers	10	3,271.000
LBS Containers	5	29.500
PALL Containers	4	1,449.000
T250 Containers	60	133,328.000
T275 Containers	211	496,015.000

<b>Total # Containers for Treatment 1016 AL Min-Neut/Stab-Sub D:</b>	<b>766</b>	<b>772,692.000</b>
--	------------	--------------------

Treatment: 1018 AL Nitric-Neut/Stab-Sub D (D002, D004-D011)

Container Size	# Containers	Weight
----------------	--------------	--------

	DM05 Containers	1	17.000
	DM15 Containers	6	833.000
	DM30 Containers	5	1,204.000
	DM55 Containers	10	4,321.000
	T250 Containers	10	28,253.000
	T275 Containers	3	7,196.000
	<b>Total # Containers for Treatment 1018 AL Nitric-Neut/Stab-Sub D:</b>	<b>35</b>	<b>41,824.000</b>
<b>Treatment:</b>	<b>1023 AOrg-Neut/Stab-Sub D (D002, D004-D011)</b>		
	<b>Container Size</b>	<b># Containers</b>	<b>Weight</b>
	DM05 Containers	7	259.000
	DM15 Containers	2	246.000
	DM30 Containers	2	304.000
	DM55 Containers	22	9,510.000
	DM85 Containers	19	7,169.000
	GAL Containers	1	185.000
	PALL Containers	3	1,109.000
	T275 Containers	9	19,629.000
	<b>Total # Containers for Treatment 1023 AOrg-Neut/Stab-Sub D:</b>	<b>65</b>	<b>38,411.000</b>
<b>Treatment:</b>	<b>1035 BLiquid-Neut/Stab-Sub D (D002, D004-D011)</b>		
	<b>Container Size</b>	<b># Containers</b>	<b>Weight</b>
	CYB Containers	1	457.000
	DM05 Containers	455	3,363.100
	DM12 Containers	1	109.000
	DM15 Containers	26	3,556.000
	DM20 Containers	6	1,052.000
	DM30 Containers	52	7,426.000
	DM55 Containers	608	189,502.000
	DM85 Containers	41	18,975.000
	DM95 Containers	5	2,032.000
	LBS Containers	62	6,244.000
	PALL Containers	21	28,134.000
	T250 Containers	22	57,178.000
	T275 Containers	61	158,994.000
	<b>Total # Containers for Treatment 1035 BLiquid-Neut/Stab-Sub D:</b>	<b>1361</b>	<b>477,022.100</b>
<b>Treatment:</b>	<b>1052 CMet Liq-Stab-Sub D (D004-D011)</b>		
	<b>Container Size</b>	<b># Containers</b>	<b>Weight</b>
	Missing Container Size	1	1,881.000
	CYB Containers	1	269.000
	DM05 Containers	43	811.000
	DM15 Containers	1	133.000
	DM30 Containers	42	6,427.440
	DM55 Containers	767	325,010.000
	DM85 Containers	3	1,006.000
	GAL Containers	2	770.000
	LBS Containers	7	3,210.000
	T275 Containers	143	352,881.000
	T330 Containers	3	8,086.000
	<b>Total # Containers for Treatment 1052 CMet Liq-Stab-Sub D:</b>	<b>1013</b>	<b>700,484.440</b>
<b>Treatment:</b>	<b>1057 CMet Sol-Stab-Sub D (D004-D011)</b>		
	<b>Container Size</b>	<b># Containers</b>	<b>Weight</b>
	CYB Containers	564	586,601.760
	DM05 Containers	79	504.800
	DM15 Containers	1	38.000
	DM30 Containers	3	198.000

		DM55 Containers	1385	548,294.000
		DM85 Containers	4	2,712.000
		LBS Containers	328	6,295.900
		PALL Containers	2	1,279.000
		TONS Containers	5	707.000
		<b>Total # Containers for Treatment 1057 CMet Sol-Stab-Sub D:</b>	<b>2371</b>	<b>1,146,630.460</b>
<b>Treatment:</b>	<b>1125 KAcid-Dpack-Sub D (D002, D004-D011)</b>			
		<b>Container Size</b>	<b># Containers</b>	<b>Weight</b>
		CYB Containers	2	1,488.000
		DM05 Containers	220	2,491.000
		DM10 Containers	18	590.000
		DM12 Containers	1	14.000
		DM15 Containers	38	1,414.000
		DM20 Containers	6	297.000
		DM30 Containers	78	5,892.000
		DM55 Containers	349	59,042.000
		GAL Containers	47	7,751.000
		LBS Containers	173	27,632.000
		<b>Total # Containers for Treatment 1125 KAcid-Dpack-Sub D:</b>	<b>932</b>	<b>106,611.000</b>
<b>Treatment:</b>	<b>1129 KBase-Dpack-Sub D (D002, D004-D011)</b>			
		<b>Container Size</b>	<b># Containers</b>	<b>Weight</b>
		Missing Container Size	1	0.000
		CYB Containers	23	23,750.000
		DM05 Containers	575	1,843.000
		DM10 Containers	17	410.000
		DM15 Containers	33	1,332.000
		DM20 Containers	4	175.000
		DM30 Containers	67	5,091.000
		DM55 Containers	565	95,387.000
		GAL Containers	53	8,177.000
		LBS Containers	181	24,381.000
		T330 Containers	1	2,736.000
		<b>Total # Containers for Treatment 1129 KBase-Dpack-Sub D:</b>	<b>1520</b>	<b>163,282.000</b>
<b>Treatment:</b>	<b>1156 KToxic-Dpack-Sub D (D004-D011)</b>			
		<b>Container Size</b>	<b># Containers</b>	<b>Weight</b>
		CYB Containers	4	2,258.000
		DM05 Containers	56	428.000
		DM10 Containers	5	82.000
		DM15 Containers	3	128.000
		DM30 Containers	7	265.000
		DM55 Containers	24	4,213.000
		GAL Containers	3	18.000
		LBS Containers	19	324.000
		<b>Total # Containers for Treatment 1156 KToxic-Dpack-Sub D:</b>	<b>121</b>	<b>7,716.000</b>
<b>Treatment:</b>	<b>1358 ASolid-NeutralSP-Sub D (D002, D004-D011)</b>			
		<b>Container Size</b>	<b># Containers</b>	<b>Weight</b>
		CYB Containers	2	5,083.000
		DM05 Containers	3	15.000
		DM30 Containers	1	92.000
		DM55 Containers	29	12,743.000
		<b>Total # Containers for Treatment 1358 ASolid-NeutralSP-Sub D:</b>	<b>35</b>	<b>17,933.000</b>
<b>Treatment:</b>	<b>1366 BSludge-Neut/Stab-Sub D (D002, D004-D011)</b>			



		<b>Container Size</b>	<b># Containers</b>	<b>Weight</b>
		DM30 Containers	1	96.000
		DM55 Containers	1	358.000
		TONS Containers	4	10,357.000
		<b>Total # Containers for Treatment 1366 BSludge-Neut/Stab-Sub D:</b>	<b>6</b>	<b>10,811.000</b>
Treatment:	1415	<b>AMixed-NeutralSP-Sub D (D002, D004-D011)</b>		
		<b>Container Size</b>	<b># Containers</b>	<b>Weight</b>
		DM05 Containers	1	13.000
		T275 Containers	4	10,838.000
		<b>Total # Containers for Treatment 1415 AMixed-NeutralSP-Sub D:</b>	<b>5</b>	<b>10,851.000</b>
Treatment:	1547	<b>BAmmonia-Neut/Stab-Sub D (D002, D004-D011)</b>		
		<b>Container Size</b>	<b># Containers</b>	<b>Weight</b>
		DM05 Containers	20	645.000
		DM55 Containers	23	9,224.000
		DM85 Containers	1	566.000
		LBS Containers	45	1,128.000
		T275 Containers	3	5,414.000
		<b>Total # Containers for Treatment 1547 BAmmonia-Neut/Stab-Sub D:</b>	<b>92</b>	<b>16,977.000</b>
Treatment:	1625	<b>BSolid-NeutralSP-Sub D (D002, D004-D011)</b>		
		<b>Container Size</b>	<b># Containers</b>	<b>Weight</b>
		CYB Containers	1	170.000
		DM05 Containers	2	18.000
		DM20 Containers	1	85.000
		DM30 Containers	3	208.000
		DM55 Containers	20	9,755.000
		<b>Total # Containers for Treatment 1625 BSolid-NeutralSP-Sub D:</b>	<b>27</b>	<b>10,236.000</b>
Treatment:	1917	<b>AH Chrome-Neut/Stab-Sub D (D002, D004-D011)</b>		
		<b>Container Size</b>	<b># Containers</b>	<b>Weight</b>
		DM15 Containers	1	125.000
		DM30 Containers	1	245.000
		DM55 Containers	6	3,431.000
		T275 Containers	2	6,177.000
		TONS Containers	3	1,586.000
		<b>Total # Containers for Treatment 1917 AH Chrome-Neut/Stab-Sub D:</b>	<b>13</b>	<b>11,564.000</b>

**WASTE PROFILE FORM**

For assistance in completing this document or for additional information on service offerings, please visit our website at [www.usecology.com](http://www.usecology.com) or call 800-592-5489.

**US Ecology will choose the appropriate facility and method of waste management for your waste from the technologies offered at each operation.**

**If you wish to direct this waste to a specific facility(s) or treatment technology please indicate here:**

**Waste Common Name:** CORROSIVE LIQUIDS/SOLIDS (ALKALINE).

**Section 1 - Generator & Customer Information**

**Generator EPA ID #** FLD-981-932-494

**Generator** EQ FLORIDA, INC.

**Facility Address** 2002 N. ORIENT ROAD

**City** TAMPA **State** FL **Zip** 33619

**24-hour Emergency Response Number** (813) 319-3402

**Mailing Address** 7202 EAST 8TH AVENUE

**City** TAMPA **State** FL **Zip** 33619

**Generator Contact** Ken Dean

**Title** Operations Manager

**Phone** (813) 319-3433 **Fax** (813) 622-8765

**E-mail** Ken.Dean@usecology.com

*Internal Use Only: EQ Division*

EQ Customer No. 6696

**Invoicing Company** EQ FLORIDA INC

**Address** 7202 EAST 8TH AVENUE

**City** TAMPA **State** FL **Zip** 33619

**Country** USA

**Invoicing Contact** DENA EVERHARDT

**Phone** (813) 623-5302xt227 **Fax** (813) 626-7451

**Technical Contact** Ken Dean

**Phone** (813) 319-3433 **Fax** (813) 622-8765

**Cell Phone** ( ) -

**E-mail** Ken.Dean@usecology.com

**Section 2 - Shipping & Packaging Information**

2.1) Shipping Volume & Frequency:

a) Volume of Waste to be Shipped: Varies

b) Frequency: ☐ One Time ☒ Month ☐ Quarter ☐ Year ☐ Other

2.2) DOT Information

a) Is this a U.S. Department of Transportation (USDOT) Hazardous Material? ☒ Yes ☐ No

b) If "Yes", indicate the proper shipping name per 49 CFR 172.101 Hazardous Materials Table:

RQ, UN3266, Waste, Corrosive liquid, basic, inorganic, n.o.s., 8, PGII, (D002), ERG #154

**Section 3 - Special Properties**

3.1) Color VARIES

3.2) Odor ☒ None ☐ Ammonia ☐ Amines ☐ Mercaptans ☐ Sulfur ☐ Organic Acid ☐ Amines/Ammonia  
☐ Other:

3.3) Consistency at 70 °F: ☐ Solid ☐ Dust/Powder ☐ Debris ☐ Sludge ☐ Liquid ☐ Gas/Aerosol ☒ Varies

3.4) What is the pH? ☐ ≤2 ☐ 2.1-4.9 ☒ 5-10 ☒ 10.1-12.4 ☒ ≥12.5 ☐ N/A

3.5) What is the flash point? ☐ <90 °F ☐ 90-139 °F ☐ 140-199 °F ☒ ≥200 °F ☐ N/A

3.6) Does this waste exhibit any of the following properties? (check all that apply)

<input type="checkbox"/> None	<input checked="" type="checkbox"/> Free Liquids	<input type="checkbox"/> Metal Fines	<input type="checkbox"/> Water Reactive	<input type="checkbox"/> Biohazard
<input type="checkbox"/> Shock Sensitive	<input type="checkbox"/> Oily Residue	<input type="checkbox"/> Dioxins	<input type="checkbox"/> Furans	<input type="checkbox"/> Aluminum
<input type="checkbox"/> Asbestos -non- friable	<input type="checkbox"/> Asbestos - friable	<input type="checkbox"/> Other Radioactive	<input type="checkbox"/> Air Reactive	<input type="checkbox"/> Isocyanates
<input type="checkbox"/> Biodegradable Sorbents	<input type="checkbox"/> Pyrophoric	<input type="checkbox"/> Reactive Sulfide	<input type="checkbox"/> Reactive Cyanide	<input type="checkbox"/> Explosives
<input type="checkbox"/> Temperature Controlled Organic Peroxide	<input type="checkbox"/> NORM	<input type="checkbox"/> TENORM		

## Section 4 - Composition and Generating Process

4.1) Provide a physical and chemical composition of the waste (e.g. soil, water, PPE, debris, etc.). List the percent ranges or the concentration of each component, either estimated or known.

Caustic Solutions including:	0. to	0. %
Sodium and/ or Potassium Hydroxide	95. to	100. %
Ammonium Hydroxide	0. to	5. %

4.2) Provide a description of the generating process. *Remediation & IDW Sites: please provide a site history.*

Ammonium hydroxide solutions must be <5%. An accumulation of nonlisted caustic waste at a TSDF. Waste may be expired products or spent solutions. No metal powders/fines - no Be/Al/Zn/Mg dusts/fines/pieces. <5000 ppm Total RCRA/UHC metals. <2000 mg/kg Cr, <500 mg/kg Cd, <150 mg/kg As, <260 mg/kg Hg total, <10 mg/L Hg TCLP, <150 mg/kg Se, <150 mg/kg Sb. No free mercury. No Michigan codes.

4.3) Are there any known previous handling or treatment issues involving this waste? ☐ Yes\* ☒ No

\*If yes, describe: \_\_\_\_\_

## Section 5 - Hazardous Wastes

As determined by 40 CFR, Part 261 and State Rules:

Please list applicable waste code(s):

5.1) Is this waste exempted from RCRA? ☐ Yes ☒ No

If Yes, please provide exemption: \_\_\_\_\_

5.2) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes ☒ No

a) For F006-F009, F012, does this come from a generator that conducts a cyanide plating process? ☐ Yes ☒ No

5.3) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☒ Yes ☐ No D002 D004 D005 D006 D007 D008 D009 D010 D011

5.4) Do any State Specific Hazardous Waste Codes apply? ☐ Yes ☐ No 0003110H 0006110H 0007319H

**If you answered 'no' to 5.2, 5.3 and 5.4, please proceed to Section 6.**

5.5) EPA Source Code: G61 EPA Form Code: W110

5.6) Waste Code Determination Is Based On: ☒ Generator Knowledge ☐ Analysis ☐ MSDS

*Analysis and/or MSDS may be required for review and approval for hazardous and non-hazardous waste streams.*

5.7) Does this waste exceed Land Disposal Restriction levels? ☒ Yes ☐ No

a) Is this stream a wastewater (WW) or non-wastewater (NWW)? ☐ WW ☒ NWW

b) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ☐ Yes ☒ No

c) Does this waste contain greater than 50% debris, by volume? ☐ Yes ☒ No  
(Debris is greater than 2.5 inches in size.)

d) If the debris is larger than 3 ft x 3 ft x 3 ft, please provide the approximate dimensions and weight: \_\_\_\_\_

5.8) If this is a characteristic hazardous waste, does it contain Underlying Hazardous Constituents? ☒ Yes\* ☐ No

\*If Yes, please list: 200 Antimony, 201 Arsenic, 202 Barium, 203 Beryllium, 204 Cadmium, 205 Chromium, 209 Lead, 211 Mercury (all others), 212 Nickel, 213 Selenium, 214 Silver, 216 Thallium

*For a complete list of UHC constituents, please refer to 40 CFR 268.48*

## Section 6 - Non-Hazardous Wastes

Please list applicable waste code(s):

6.1) Do any State Specific Non-Hazardous Waste Codes apply? ☐ Yes ☒ No

6.2) Is this a Universal (UNIV) waste or a Recyclable Good (RG) ? ☐ UNIV ☐ RG ☒ N/A

6.3) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes ☒ No

a) If yes, is the total halogen content of the used oil waste stream greater than 1,000 ppm? ☐ Yes ☐ No

b) If yes, what is the source of the halogen content?

☐ This is a metalworking oil/fluid containing chlorinated paraffins.

☐ This is a used oil contaminated with chlorofluorocarbons from refrigeration units.

☐ This oil contains halogenated solvents. List specific solvents: \_\_\_\_\_

☐ Other, describe: \_\_\_\_\_

### Section 7 - TSCA Information

- 7.1) What is the concentration of PCBs in the waste? ☒ None ☐ 0-49 ppm ☐ 50-499 ppm ☐ 500+ ppm
- 7.2) Does the waste contain PCB contamination from a source with a concentration  $\geq 50$  ppm? ☐ Yes ☒ No ☐ Unknown
- If you answered "none" or '0-49 ppm' to 7.1 and "no" to 7.2, please proceed to Section 8.**
- 7.3) Has this waste been processed into a non-liquid form? ☐ Yes\* ☐ No
- \*If yes, what was the concentration of PCBs prior to processing? ☐ 0-499 ppm ☐ 500+ ppm
- 7.4) Is this non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No
- 7.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No
- 7.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ Yes ☐ No ☒ N/A

### Section 8 - Clean Air Act Information

- 8.1) Is this waste subject to regulation under 40 CFR, Part 264, Subpart CC (VOC > 500 ppmw)? ☐ Yes ☒ No
- 8.2) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD (VOHAP > 500 ppmw)? ☐ Yes ☒ No
- 8.3) Is the site, or waste, subject to any other NESHAP/MACT standard(s)? ☐ Yes\* ☒ No
- \*If Yes this document serves as notification that this waste contains chemicals \_\_\_\_\_, required to be managed in accordance with Part ☐ 61 ☐ 62 ☐ 63 Subpart \_\_\_\_\_ of NESHAP/MACT standards.
- 8.4) Does this waste stream contain Benzene? ☐ Yes ☒ No
- If you answered "no" to 8.4, please proceed to Section 9.**
- 8.5) Does the waste stream come from a facility subject to 40 CFR 61, Subpart FF (Benzene NESHAP)? ☐ Yes ☐ No
- If Yes, please provide the SIC/NAICS code: \_\_\_\_\_
- If you answered "no" to 8.5, please proceed to Section 9.**
- 8.6) Does your facility manage the waste subject to Benzene NESHAP in a manner other than shipping off-site? ☐ Yes ☐ No
- If Yes, please specify: \_\_\_\_\_
- 8.7) Is the generating source of this waste a facility with Total Annual Benzene (TAB)  $\geq 10$  Mg/year? ☐ Yes ☐ No
- 8.8) Does the waste contain >10% water? ☐ Yes ☐ No
- 8.9) What is the TAB quantity for your facility? \_\_\_\_\_ 0 Mg/year
- 8.10) What is the total Benzene concentration in your waste? \_\_\_\_\_ Percent or \_\_\_\_\_ ppmw.
- Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.**

### Section 9 - Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's personnel to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's personnel to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

**If I am an agent acting on behalf of the generator, I also certify that I have permission to sign any and all waste characterization paperwork on the generator's behalf and that I can produce such certification in writing upon request.**

Generator Signature \_\_\_\_\_ Printed Name Kenneth S. Dean

Company EQ Florida, Inc. Title Operations Manager Date \_\_\_\_\_

## STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ - The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Profile Form, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

### **Definitions**

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Profile Form and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Profile Form (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

### **Control of Operations.**

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

### **Identification of Waste.**

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Profile Form containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Profile Form, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Profile Form.

### **Non-Conforming Wastes.**

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

### **Customer Warranty - Acceptable Wastes.**

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Profile Form. The information set forth in the Waste Profile Form or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

### **Customer Warranty - Title to Wastes.**

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

### **Customer Warranty - Compliance with Laws.**

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

### **Customer Warranty - Updating Information.**

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Profile Form, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

### **Customer Indemnity.**

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

### **Force Majeure.**

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

### **Governing Laws**

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

### **Bulk Disposal Charges**

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

**WASTE PROFILE FORM**

For assistance in completing this document or for additional information on service offerings, please visit our website at [www.usecology.com](http://www.usecology.com) or call 800-592-5489.

**US Ecology will choose the appropriate facility and method of waste management for your waste from the technologies offered at each operation.**

**If you wish to direct this waste to a specific facility(s) or treatment technology please indicate here:**

**Waste Common Name:** METAL CHARACTERISTIC SOLID/SLUDGES - NO DEBRIS.

**Section 1 - Generator & Customer Information**

**Generator EPA ID #** FLD-981-932-494

**Generator** EQ FLORIDA, INC.

**Facility Address** 2002 N. ORIENT ROAD

**City** TAMPA **State** FL **Zip** 33619

**24-hour Emergency Response Number** (813) 319-3402

**Mailing Address** 7202 EAST 8TH AVENUE

**City** TAMPA **State** FL **Zip** 33619

**Generator Contact** Ken Dean

**Title** Operations Manager

**Phone** (813) 319-3433 **Fax** (813) 622-8765

**E-mail** Ken.Dean@usecology.com

*Internal Use Only: EQ Division*

EQ Customer No. 6696

**Invoicing Company** EQ FLORIDA INC

**Address** 7202 EAST 8TH AVENUE

**City** TAMPA **State** FL **Zip** 33619

**Country** USA

**Invoicing Contact** DENA EVERHARDT

**Phone** (813) 623-5302xt227 **Fax** (813) 626-7451

**Technical Contact** Ken Dean

**Phone** (813) 319-3433 **Fax** (813) 622-8765

**Cell Phone** ( ) -

**E-mail** Ken.Dean@usecology.com

**Section 2 - Shipping & Packaging Information**

2.1) Shipping Volume & Frequency:

a) Volume of Waste to be Shipped: Varies

b) Frequency: ☐ One Time ☒ Month ☐ Quarter ☐ Year ☐ Other

2.2) DOT Information

a) Is this a U.S. Department of Transportation (USDOT) Hazardous Material? ☒ Yes ☐ No

b) If "Yes", indicate the proper shipping name per 49 CFR 172.101 Hazardous Materials Table:

RQ, NA3077, Hazardous waste, solid, n.o.s., 9, PGIII, ERG #171

**Section 3 - Special Properties**

3.1) Color VARIES

3.2) Odor ☒ None ☐ Ammonia ☐ Amines ☐ Mercaptans ☐ Sulfur ☐ Organic Acid ☐ Amines/Ammonia  
☐ Other:

3.3) Consistency at 70 °F: ☐ Solid ☐ Dust/Powder ☐ Debris ☐ Sludge ☐ Liquid ☐ Gas/Aerosol ☒ Varies

3.4) What is the pH? ☐ ≤2 ☒ 2.1-4.9 ☒ 5-10 ☒ 10.1-12.4 ☐ ≥12.5 ☐ N/A

3.5) What is the flash point? ☐ <90 °F ☐ 90-139 °F ☐ 140-199 °F ☒ ≥200 °F ☐ N/A

3.6) Does this waste exhibit any of the following properties? (check all that apply)

- |  |  |  |   |                                      |
|--|--|--|---|--------------------------------------|
| <input type="checkbox"/> None                                    | <input checked="" type="checkbox"/> Free Liquids | <input type="checkbox"/> Metal Fines       | <input type="checkbox"/> Water Reactive   | <input type="checkbox"/> Biohazard   |
| <input type="checkbox"/> Shock Sensitive                         | <input type="checkbox"/> Oily Residue            | <input type="checkbox"/> Dioxins           | <input type="checkbox"/> Furans           | <input type="checkbox"/> Aluminum    |
| <input type="checkbox"/> Asbestos -non- friable                  | <input type="checkbox"/> Asbestos - friable      | <input type="checkbox"/> Other Radioactive | <input type="checkbox"/> Air Reactive     | <input type="checkbox"/> Isocyanates |
| <input type="checkbox"/> Biodegradable Sorbents                  | <input type="checkbox"/> Pyrophoric              | <input type="checkbox"/> Reactive Sulfide  | <input type="checkbox"/> Reactive Cyanide | <input type="checkbox"/> Explosives  |
| <input type="checkbox"/> Temperature Controlled Organic Peroxide | <input type="checkbox"/> NORM                    | <input type="checkbox"/> TENORM            |   |                                      |



## Section 4 - Composition and Generating Process

4.1) Provide a physical and chemical composition of the waste (e.g. soil, water, PPE, debris, etc.). List the percent ranges or the concentration of each component, either estimated or known.

Soil/sludge/paint chips	0. to	100. %
fluorescent bulbs	0. to	100. %
rock/booms/ppe/debris	0. to	20. %
liquid/water	0. to	100. %

4.2) Provide a description of the generating process. *Remediation & IDW Sites: please provide a site history.*

Residuals from various non-listed, metal process spills, sandblast, and or paint chips. No Metal fines. No aluminum, magnesium, or zinc dust. If D009, mercury must be less than 260 mg/kg. Nor Free Mercury. No Organic underlying hazardous constituents. Debris must be less than 50% of each load by volume. Based on visual inspection. No amine or ammonia bearing wastes. No pressurized containers and LDR will accompany each load. Identifying the concentrations of all underlying hazardous constituents.

4.3) Are there any known previous handling or treatment issues involving this waste? ☐ Yes\* ☒ No

\*If yes, describe: \_\_\_\_\_

## Section 5 - Hazardous Wastes

As determined by 40 CFR, Part 261 and State Rules:

Please list applicable waste code(s):

5.1) Is this waste exempted from RCRA? ☐ Yes ☒ No

If Yes, please provide exemption: \_\_\_\_\_

5.2) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes ☒ No

a) For F006-F009, F012, does this come from a generator that conducts a cyanide plating process? ☐ Yes ☒ No

5.3) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☒ Yes ☐ No D004 D005 D006 D007 D008 D009 D010 D011

5.4) Do any State Specific Hazardous Waste Codes apply? ☐ Yes ☐ No 0001307H 0002319H 0010319H 0010409H

**If you answered 'no' to 5.2, 5.3 and 5.4, please proceed to Section 6.**

5.5) EPA Source Code: G61 EPA Form Code: W101

5.6) Waste Code Determination Is Based On: ☒ Generator Knowledge ☐ Analysis ☐ MSDS

*Analysis and/or MSDS may be required for review and approval for hazardous and non-hazardous waste streams.*

5.7) Does this waste exceed Land Disposal Restriction levels? ☒ Yes ☐ No

a) Is this stream a wastewater (WW) or non-wastewater (NWW)? ☐ WW ☒ NWW

b) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ☐ Yes ☒ No

c) Does this waste contain greater than 50% debris, by volume? ☐ Yes ☒ No  
(Debris is greater than 2.5 inches in size.)

d) If the debris is larger than 3 ft x 3 ft x 3 ft, please provide the approximate dimensions and weight: \_\_\_\_\_

5.8) If this is a characteristic hazardous waste, does it contain Underlying Hazardous Constituents? ☒ Yes\* ☐ No

\*If Yes, please list: 200 Antimony, 201 Arsenic, 202 Barium, 203 Beryllium, 204 Cadmium, 205 Chromium, 209 Lead, 211 Mercury (all others), 214 Silver, 216 Thallium

*For a complete list of UHC constituents, please refer to 40 CFR 268.48*

## Section 6 - Non-Hazardous Wastes

Please list applicable waste code(s):

6.1) Do any State Specific Non-Hazardous Waste Codes apply? ☐ Yes ☒ No

6.2) Is this a Universal (UNIV) waste or a Recyclable Good (RG) ? ☐ UNIV ☐ RG ☒ N/A

6.3) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes ☒ No

a) If yes, is the total halogen content of the used oil waste stream greater than 1,000 ppm? ☐ Yes ☐ No

b) If yes, what is the source of the halogen content?

☐ This is a metalworking oil/fluid containing chlorinated paraffins.

☐ This is a used oil contaminated with chlorofluorocarbons from refrigeration units.

☐ This oil contains halogenated solvents. List specific solvents: \_\_\_\_\_

☐ Other, describe: \_\_\_\_\_

## Section 7 - TSCA Information

- 7.1) What is the concentration of PCBs in the waste? ☒ None ☐ 0-49 ppm ☐ 50-499 ppm ☐ 500+ ppm
- 7.2) Does the waste contain PCB contamination from a source with a concentration  $\geq 50$  ppm? ☐ Yes ☒ No ☐ Unknown
- If you answered "none" or '0-49 ppm' to 7.1 and "no" to 7.2, please proceed to Section 8.**
- 7.3) Has this waste been processed into a non-liquid form? ☐ Yes\* ☐ No
- \*If yes, what was the concentration of PCBs prior to processing? ☐ 0-499 ppm ☐ 500+ ppm
- 7.4) Is this non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No
- 7.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No
- 7.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ Yes ☐ No ☒ N/A

## Section 8 - Clean Air Act Information

- 8.1) Is this waste subject to regulation under 40 CFR, Part 264, Subpart CC (VOC > 500 ppmw)? ☐ Yes ☒ No
- 8.2) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD (VOHAP > 500 ppmw)? ☐ Yes ☒ No
- 8.3) Is the site, or waste, subject to any other NESHAP/MACT standard(s)? ☐ Yes\* ☒ No
- \*If Yes this document serves as notification that this waste contains chemicals \_\_\_\_\_, required to be managed in accordance with Part ☐ 61 ☐ 62 ☐ 63 Subpart \_\_\_\_\_ of NESHAP/MACT standards.
- 8.4) Does this waste stream contain Benzene? ☐ Yes ☒ No
- If you answered "no" to 8.4, please proceed to Section 9.**
- 8.5) Does the waste stream come from a facility subject to 40 CFR 61, Subpart FF (Benzene NESHAP)? ☐ Yes ☐ No
- If Yes, please provide the SIC/NAICS code: \_\_\_\_\_
- If you answered "no" to 8.5, please proceed to Section 9.**
- 8.6) Does your facility manage the waste subject to Benzene NESHAP in a manner other than shipping off-site? ☐ Yes ☐ No
- If Yes, please specify: \_\_\_\_\_
- 8.7) Is the generating source of this waste a facility with Total Annual Benzene (TAB)  $\geq 10$  Mg/year? ☐ Yes ☐ No
- 8.8) Does the waste contain >10% water? ☐ Yes ☐ No
- 8.9) What is the TAB quantity for your facility? \_\_\_\_\_ 0 Mg/year
- 8.10) What is the total Benzene concentration in your waste? \_\_\_\_\_ Percent or \_\_\_\_\_ ppmw.
- Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.**

## Section 9 - Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's personnel to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's personnel to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

**If I am an agent acting on behalf of the generator, I also certify that I have permission to sign any and all waste characterization paperwork on the generator's behalf and that I can produce such certification in writing upon request.**

Generator Signature \_\_\_\_\_ Printed Name Kenneth S. Dean

Company EQ Florida, Inc. Title Operations Manager Date \_\_\_\_\_

## STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ - The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Profile Form, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

### **Definitions**

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Profile Form and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Profile Form (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

### **Control of Operations.**

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

### **Identification of Waste.**

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Profile Form containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Profile Form, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Profile Form.

### **Non-Conforming Wastes.**

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

### **Customer Warranty - Acceptable Wastes.**

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Profile Form. The information set forth in the Waste Profile Form or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

### **Customer Warranty - Title to Wastes.**

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

### **Customer Warranty - Compliance with Laws.**

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

### **Customer Warranty - Updating Information.**

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Profile Form, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

### **Customer Indemnity.**

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

### **Force Majeure.**

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

### **Governing Laws**

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

### **Bulk Disposal Charges**

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

**WASTE PROFILE FORM**

For assistance in completing this document or for additional information on service offerings, please visit our website at [www.usecology.com](http://www.usecology.com) or call 800-592-5489.

**US Ecology will choose the appropriate facility and method of waste management for your waste from the technologies offered at each operation.**

**If you wish to direct this waste to a specific facility(s) or treatment technology please indicate here:**

**Waste Common Name:** GENERIC ACID: CHROMIC ACIDS <30% CONCENTRATION

**Section 1 - Generator & Customer Information**

**Generator EPA ID #** FLD-981-932-494

**Generator** EQ FLORIDA, INC.

**Facility Address** 2002 N. ORIENT ROAD

**City** TAMPA **State** FL **Zip** 33619

**24-hour Emergency Response Number** (813) 319-3402

**Mailing Address** 7202 EAST 8TH AVENUE

**City** TAMPA **State** FL **Zip** 33619

**Generator Contact** Ken Dean

**Title** Operations Manager

**Phone** (813) 319-3433 **Fax** (813) 622-8765

**E-mail** Ken.Dean@usecology.com

*Internal Use Only: EQ Division*

**EQ Customer No.** 6696

**Invoicing Company** EQ FLORIDA INC

**Address** 7202 EAST 8TH AVENUE

**City** TAMPA **State** FL **Zip** 33619

**Country** USA

**Invoicing Contact** DENA EVERHARDT

**Phone** (813) 623-5302xt227 **Fax** (813) 626-7451

**Technical Contact** Ken Dean

**Phone** (813) 319-3433 **Fax** (813) 622-8765

**Cell Phone** ( ) -

**E-mail** Ken.Dean@usecology.com

**Section 2 - Shipping & Packaging Information**

2.1) Shipping Volume & Frequency:

a) Volume of Waste to be Shipped: Varies

b) Frequency: ☐ One Time ☐ Month ☐ Quarter ☒ Year ☐ Other

2.2) DOT Information

a) Is this a U.S. Department of Transportation (USDOT) Hazardous Material? ☒ Yes ☐ No

b) If "Yes", indicate the proper shipping name per 49 CFR 172.101 Hazardous Materials Table:

RQ, UN3264, Waste, Corrosive liquid, acidic, inorganic, n.o.s., 8, PGII, (D002), ERG #154

**Section 3 - Special Properties**

3.1) Color VARIES

3.2) Odor ☐ None ☐ Ammonia ☐ Amines ☐ Mercaptans ☐ Sulfur ☐ Organic Acid ☐ Amines/Ammonia

☒ Other: Mild

3.3) Consistency at 70 °F: ☒ Solid ☐ Dust/Powder ☐ Debris ☐ Sludge ☒ Liquid ☐ Gas/Aerosol ☐ Varies

3.4) What is the pH? ☒ ≤2 ☒ 2.1-4.9 ☐ 5-10 ☐ 10.1-12.4 ☐ ≥12.5 ☐ N/A

3.5) What is the flash point? ☐ <90 °F ☐ 90-139 °F ☐ 140-199 °F ☒ ≥200 °F ☐ N/A

3.6) Does this waste exhibit any of the following properties? (check all that apply)

- |  |  |  |   |                                      |
|--|--|--|---|--------------------------------------|
| <input type="checkbox"/> None                                    | <input checked="" type="checkbox"/> Free Liquids | <input type="checkbox"/> Metal Fines       | <input type="checkbox"/> Water Reactive   | <input type="checkbox"/> Biohazard   |
| <input type="checkbox"/> Shock Sensitive                         | <input type="checkbox"/> Oily Residue            | <input type="checkbox"/> Dioxins           | <input type="checkbox"/> Furans           | <input type="checkbox"/> Aluminum    |
| <input type="checkbox"/> Asbestos -non- friable                  | <input type="checkbox"/> Asbestos - friable      | <input type="checkbox"/> Other Radioactive | <input type="checkbox"/> Air Reactive     | <input type="checkbox"/> Isocyanates |
| <input type="checkbox"/> Biodegradable Sorbents                  | <input type="checkbox"/> Pyrophoric              | <input type="checkbox"/> Reactive Sulfide  | <input type="checkbox"/> Reactive Cyanide | <input type="checkbox"/> Explosives  |
| <input type="checkbox"/> Temperature Controlled Organic Peroxide | <input type="checkbox"/> NORM                    | <input type="checkbox"/> TENORM            |   |                                      |

## Section 4 - Composition and Generating Process

4.1) Provide a physical and chemical composition of the waste (e.g. soil, water, PPE, debris, etc.). List the percent ranges or the concentration of each component, either estimated or known.

Chromic Acid Solution \_\_\_\_\_ 100. to \_\_\_\_\_ 100. %

4.2) Provide a description of the generating process. *Remediation & IDW Sites: please provide a site history.*

Accumulation of nonlisted metal wastes by TSDF. Waste may include expired product or spent solution. No precursors to listed codes if WW treated. <5000ppm Total RCRA/UHC Metals, <2000 ppm Cr, <500 ppm Cd, <150 ppm As, <260 ppm Hg total, <150 ppm Se, <150 ppm Sb, <10 mg/L Hg TCLP. No organic codes/UHCs. No free mercury. No D001.

4.3) Are there any known previous handling or treatment issues involving this waste? ☐ Yes\* ☐ No

\*If yes, describe: \_\_\_\_\_

## Section 5 - Hazardous Wastes

As determined by 40 CFR, Part 261 and State Rules:

Please list applicable waste code(s):

5.1) Is this waste exempted from RCRA? ☐ Yes ☒ No

If Yes, please provide exemption: \_\_\_\_\_

5.2) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes ☐ No

a) For F006-F009, F012, does this come from a generator that conducts a cyanide plating process? ☐ Yes ☐ No

5.3) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☒ Yes ☐ No D002 D004 D005 D006 D007 D008 D009 D010 D011

5.4) Do any State Specific Hazardous Waste Codes apply? ☐ Yes ☐ No

**If you answered 'no' to 5.2, 5.3 and 5.4, please proceed to Section 6.**

5.5) EPA Source Code: G61 EPA Form Code: W103

5.6) Waste Code Determination Is Based On: ☐ Generator Knowledge ☐ Analysis ☐ MSDS

*Analysis and/or MSDS may be required for review and approval for hazardous and non-hazardous waste streams.*

5.7) Does this waste exceed Land Disposal Restriction levels? ☒ Yes ☐ No

a) Is this stream a wastewater (WW) or non-wastewater (NWW)? ☐ WW ☒ NWW

b) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ☐ Yes ☐ No

c) Does this waste contain greater than 50% debris, by volume? ☐ Yes ☐ No  
(Debris is greater than 2.5 inches in size.)

d) If the debris is larger than 3 ft x 3 ft x 3 ft, please provide the approximate dimensions and weight:

5.8) If this is a characteristic hazardous waste, does it contain Underlying Hazardous Constituents? ☒ Yes\* ☐ No

\*If Yes, please list: 200 Antimony, 201 Arsenic, 202 Barium, 203 Beryllium, 204 Cadmium, 205 Chromium, 209 Lead, 211 Mercury (all others), 212 Nickel, 213 Selenium, 214 Silver, 216 Thallium

*For a complete list of UHC constituents, please refer to 40 CFR 268.48*

## Section 6 - Non-Hazardous Wastes

Please list applicable waste code(s):

6.1) Do any State Specific Non-Hazardous Waste Codes apply? ☐ Yes ☐ No

6.2) Is this a Universal (UNIV) waste or a Recyclable Good (RG) ? ☐ UNIV ☐ RG ☐ N/A

6.3) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes ☐ No

a) If yes, is the total halogen content of the used oil waste stream greater than 1,000 ppm? ☐ Yes ☐ No

b) If yes, what is the source of the halogen content?

☐ This is a metalworking oil/fluid containing chlorinated paraffins.

☐ This is a used oil contaminated with chlorofluorocarbons from refrigeration units.

☐ This oil contains halogenated solvents. List specific solvents: \_\_\_\_\_

☐ Other, describe: \_\_\_\_\_

## Section 7 - TSCA Information

- 7.1) What is the concentration of PCBs in the waste? ☐ None ☐ 0-49 ppm ☐ 50-499 ppm ☐ 500+ ppm
- 7.2) Does the waste contain PCB contamination from a source with a concentration  $\geq 50$  ppm? ☐ Yes ☒ No ☐ Unknown
- If you answered "none" or '0-49 ppm' to 7.1 and "no" to 7.2, please proceed to Section 8.**
- 7.3) Has this waste been processed into a non-liquid form? ☐ Yes\* ☒ No
- \*If yes, what was the concentration of PCBs prior to processing? ☐ 0-499 ppm ☐ 500+ ppm
- 7.4) Is this non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No
- 7.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No
- 7.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ Yes ☐ No ☒ N/A

## Section 8 - Clean Air Act Information

- 8.1) Is this waste subject to regulation under 40 CFR, Part 264, Subpart CC (VOC > 500 ppmw)? ☐ Yes ☒ No
- 8.2) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD (VOHAP > 500 ppmw)? ☐ Yes ☒ No
- 8.3) Is the site, or waste, subject to any other NESHAP/MACT standard(s)? ☐ Yes\* ☒ No
- \*If Yes this document serves as notification that this waste contains chemicals \_\_\_\_\_, required to be managed in accordance with Part ☐ 61 ☐ 62 ☐ 63 Subpart \_\_\_\_\_ of NESHAP/MACT standards.
- 8.4) Does this waste stream contain Benzene? ☐ Yes ☒ No
- If you answered "no" to 8.4, please proceed to Section 9.**
- 8.5) Does the waste stream come from a facility subject to 40 CFR 61, Subpart FF (Benzene NESHAP)? ☐ Yes ☐ No
- If Yes, please provide the SIC/NAICS code: \_\_\_\_\_
- If you answered "no" to 8.5, please proceed to Section 9.**
- 8.6) Does your facility manage the waste subject to Benzene NESHAP in a manner other than shipping off-site? ☐ Yes ☐ No
- If Yes, please specify: \_\_\_\_\_
- 8.7) Is the generating source of this waste a facility with Total Annual Benzene (TAB)  $\geq 10$  Mg/year? ☐ Yes ☐ No
- 8.8) Does the waste contain >10% water? ☐ Yes ☐ No
- 8.9) What is the TAB quantity for your facility? \_\_\_\_\_ 0 Mg/year
- 8.10) What is the total Benzene concentration in your waste? \_\_\_\_\_ Percent or \_\_\_\_\_ ppmw.
- Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.**

## Section 9 - Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's personnel to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's personnel to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

**If I am an agent acting on behalf of the generator, I also certify that I have permission to sign any and all waste characterization paperwork on the generator's behalf and that I can produce such certification in writing upon request.**

Generator Signature \_\_\_\_\_ Printed Name \_\_\_\_\_

Company \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_



## STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ - The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Profile Form, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

### **Definitions**

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Profile Form and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Profile Form (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

### **Control of Operations.**

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

### **Identification of Waste.**

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Profile Form containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Profile Form, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Profile Form.

### **Non-Conforming Wastes.**

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

### **Customer Warranty - Acceptable Wastes.**

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Profile Form. The information set forth in the Waste Profile Form or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

### **Customer Warranty - Title to Wastes.**

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

### **Customer Warranty - Compliance with Laws.**

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

### **Customer Warranty - Updating Information.**

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Profile Form, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

### **Customer Indemnity.**

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

### **Force Majeure.**

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

### **Governing Laws**

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

### **Bulk Disposal Charges**

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

**WASTE PROFILE FORM**

For assistance in completing this document or for additional information on service offerings, please visit our website at [www.usecology.com](http://www.usecology.com) or call 800-592-5489.

**US Ecology will choose the appropriate facility and method of waste management for your waste from the technologies offered at each operation.**

**If you wish to direct this waste to a specific facility(s) or treatment technology please indicate here:**

**Waste Common Name:** GENERIC ACID: HYDROFLUORIC ACID SOLUTIONS <20%

**Section 1 - Generator & Customer Information**

**Generator EPA ID #** FLD-981-932-494

**Generator** EQ FLORIDA, INC.

**Facility Address** 2002 N. ORIENT ROAD

**City** TAMPA **State** FL **Zip** 33619

**24-hour Emergency Response Number** (813) 319-3402

**Mailing Address** 7202 EAST 8TH AVENUE

**City** TAMPA **State** FL **Zip** 33619

**Generator Contact** Ken Dean

**Title** Operations Manager

**Phone** (813) 319-3433 **Fax** (813) 622-8765

**E-mail** Ken.Dean@usecology.com

*Internal Use Only: EQ Division*

EQ Customer No. 6696

**Invoicing Company** EQ FLORIDA INC

**Address** 7202 EAST 8TH AVENUE

**City** TAMPA **State** FL **Zip** 33619

**Country** USA

**Invoicing Contact** DENA EVERHARDT

**Phone** (813) 623-5302xt227 **Fax** (813) 626-7451

**Technical Contact** Ken Dean

**Phone** (813) 319-3433 **Fax** (813) 622-8765

**Cell Phone** ( ) -

**E-mail** Ken.Dean@usecology.com

**Section 2 - Shipping & Packaging Information**

2.1) Shipping Volume & Frequency:

a) Volume of Waste to be Shipped: Varies

b) Frequency: ☐ One Time ☐ Month ☐ Quarter ☒ Year ☐ Other

2.2) DOT Information

a) Is this a U.S. Department of Transportation (USDOT) Hazardous Material? ☒ Yes ☐ No

b) If "Yes", indicate the proper shipping name per 49 CFR 172.101 Hazardous Materials Table:

UN3264, Waste, Corrosive liquid, acidic, inorganic, n.o.s., 8, PGII, ERG #154

**Section 3 - Special Properties**

3.1) Color VARIES

3.2) Odor ☐ None ☐ Ammonia ☐ Amines ☐ Mercaptans ☐ Sulfur ☐ Organic Acid ☐ Amines/Ammonia

☒ Other: Mild

3.3) Consistency at 70 °F: ☒ Solid ☐ Dust/Powder ☐ Debris ☐ Sludge ☒ Liquid ☐ Gas/Aerosol ☐ Varies

3.4) What is the pH? ☒ ≤2 ☐ 2.1-4.9 ☐ 5-10 ☐ 10.1-12.4 ☐ ≥12.5 ☐ N/A

3.5) What is the flash point? ☐ <90 °F ☐ 90-139 °F ☐ 140-199 °F ☒ ≥200 °F ☐ N/A

3.6) Does this waste exhibit any of the following properties? (check all that apply)

- |  |  |  |   |                                      |
|--|--|--|---|--------------------------------------|
| <input type="checkbox"/> None                                    | <input checked="" type="checkbox"/> Free Liquids | <input type="checkbox"/> Metal Fines       | <input type="checkbox"/> Water Reactive   | <input type="checkbox"/> Biohazard   |
| <input type="checkbox"/> Shock Sensitive                         | <input type="checkbox"/> Oily Residue            | <input type="checkbox"/> Dioxins           | <input type="checkbox"/> Furans           | <input type="checkbox"/> Aluminum    |
| <input type="checkbox"/> Asbestos -non- friable                  | <input type="checkbox"/> Asbestos - friable      | <input type="checkbox"/> Other Radioactive | <input type="checkbox"/> Air Reactive     | <input type="checkbox"/> Isocyanates |
| <input type="checkbox"/> Biodegradable Sorbents                  | <input type="checkbox"/> Pyrophoric              | <input type="checkbox"/> Reactive Sulfide  | <input type="checkbox"/> Reactive Cyanide | <input type="checkbox"/> Explosives  |
| <input type="checkbox"/> Temperature Controlled Organic Peroxide | <input type="checkbox"/> NORM                    | <input type="checkbox"/> TENORM            |   |                                      |

## Section 4 - Composition and Generating Process

4.1) Provide a physical and chemical composition of the waste (e.g. soil, water, PPE, debris, etc.). List the percent ranges or the concentration of each component, either estimated or known.

Hydrofluoric Acid Solutions \_\_\_\_\_ 0. to \_\_\_\_\_ 20. %

4.2) Provide a description of the generating process. *Remediation & IDW Sites: please provide a site history.*

NO FUMING ACIDS. Acid concentration must be <20%. Accumulation of nonlisted hydrofluoric acid by TSDF. No U134 listed waste. <5000ppm Total RCRA/UHC Metals, <2000 ppm Cr, <500 ppm Cd, <150 ppm As, <260 ppm Hg total, <150 ppm Se, <150 ppm Sb, <10 mg/L Hg TCLP. No organic codes/UHCs. No free mercury. Mixtures with other acid types must be profiled separately.

4.3) Are there any known previous handling or treatment issues involving this waste? ☐ Yes\* ☐ No

\*If yes, describe: \_\_\_\_\_

## Section 5 - Hazardous Wastes

As determined by 40 CFR, Part 261 and State Rules:

Please list applicable waste code(s):

5.1) Is this waste exempted from RCRA? ☐ Yes ☒ No

If Yes, please provide exemption: \_\_\_\_\_

5.2) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes ☐ No

a) For F006-F009, F012, does this come from a generator that conducts a cyanide plating process? ☐ Yes ☐ No

5.3) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☒ Yes ☐ No D002 D004 D005 D006 D007 D008 D009 D010 D011

5.4) Do any State Specific Hazardous Waste Codes apply? ☐ Yes ☐ No

**If you answered 'no' to 5.2, 5.3 and 5.4, please proceed to Section 6.**

5.5) EPA Source Code: G61 EPA Form Code: W103

5.6) Waste Code Determination Is Based On: ☐ Generator Knowledge ☐ Analysis ☐ MSDS

*Analysis and/or MSDS may be required for review and approval for hazardous and non-hazardous waste streams.*

5.7) Does this waste exceed Land Disposal Restriction levels? ☒ Yes ☐ No

a) Is this stream a wastewater (WW) or non-wastewater (NWW)? ☐ WW ☒ NWW

b) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ☐ Yes ☐ No

c) Does this waste contain greater than 50% debris, by volume? ☐ Yes ☐ No  
(Debris is greater than 2.5 inches in size.)

d) If the debris is larger than 3 ft x 3 ft x 3 ft, please provide the approximate dimensions and weight:

5.8) If this is a characteristic hazardous waste, does it contain Underlying Hazardous Constituents? ☒ Yes\* ☐ No

\*If Yes, please list: 200 Antimony, 201 Arsenic, 202 Barium, 203 Beryllium, 204 Cadmium, 205 Chromium, 209 Lead, 211 Mercury (all others), 212 Nickel, 213 Selenium, 214 Silver, 216 Thallium

*For a complete list of UHC constituents, please refer to 40 CFR 268.48*

## Section 6 - Non-Hazardous Wastes

Please list applicable waste code(s):

6.1) Do any State Specific Non-Hazardous Waste Codes apply? ☐ Yes ☐ No

6.2) Is this a Universal (UNIV) waste or a Recyclable Good (RG) ? ☐ UNIV ☐ RG ☐ N/A

6.3) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes ☐ No

a) If yes, is the total halogen content of the used oil waste stream greater than 1,000 ppm? ☐ Yes ☐ No

b) If yes, what is the source of the halogen content?

☐ This is a metalworking oil/fluid containing chlorinated paraffins.

☐ This is a used oil contaminated with chlorofluorocarbons from refrigeration units.

☐ This oil contains halogenated solvents. List specific solvents: \_\_\_\_\_

☐ Other, describe: \_\_\_\_\_

## Section 7 - TSCA Information

- 7.1) What is the concentration of PCBs in the waste? ☒ None ☐ 0-49 ppm ☐ 50-499 ppm ☐ 500+ ppm
- 7.2) Does the waste contain PCB contamination from a source with a concentration  $\geq 50$  ppm? ☐ Yes ☒ No ☐ Unknown
- If you answered "none" or '0-49 ppm' to 7.1 and "no" to 7.2, please proceed to Section 8.**
- 7.3) Has this waste been processed into a non-liquid form? ☐ Yes\* ☒ No
- \*If yes, what was the concentration of PCBs prior to processing? ☐ 0-499 ppm ☐ 500+ ppm
- 7.4) Is this non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No
- 7.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No
- 7.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ Yes ☐ No ☒ N/A

## Section 8 - Clean Air Act Information

- 8.1) Is this waste subject to regulation under 40 CFR, Part 264, Subpart CC (VOC > 500 ppmw)? ☐ Yes ☒ No
- 8.2) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD (VOHAP > 500 ppmw)? ☐ Yes ☒ No
- 8.3) Is the site, or waste, subject to any other NESHAP/MACT standard(s)? ☐ Yes\* ☒ No
- \*If Yes this document serves as notification that this waste contains chemicals \_\_\_\_\_, required to be managed in accordance with Part ☐ 61 ☐ 62 ☐ 63 Subpart \_\_\_\_\_ of NESHAP/MACT standards.
- 8.4) Does this waste stream contain Benzene? ☐ Yes ☒ No
- If you answered "no" to 8.4, please proceed to Section 9.**
- 8.5) Does the waste stream come from a facility subject to 40 CFR 61, Subpart FF (Benzene NESHAP)? ☐ Yes ☐ No
- If Yes, please provide the SIC/NAICS code: \_\_\_\_\_
- If you answered "no" to 8.5, please proceed to Section 9.**
- 8.6) Does your facility manage the waste subject to Benzene NESHAP in a manner other than shipping off-site? ☐ Yes ☐ No
- If Yes, please specify: \_\_\_\_\_
- 8.7) Is the generating source of this waste a facility with Total Annual Benzene (TAB)  $\geq 10$  Mg/year? ☐ Yes ☐ No
- 8.8) Does the waste contain >10% water? ☐ Yes ☐ No
- 8.9) What is the TAB quantity for your facility? \_\_\_\_\_ 0 Mg/year
- 8.10) What is the total Benzene concentration in your waste? \_\_\_\_\_ Percent or \_\_\_\_\_ ppmw.
- Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.**

## Section 9 - Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's personnel to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's personnel to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

**If I am an agent acting on behalf of the generator, I also certify that I have permission to sign any and all waste characterization paperwork on the generator's behalf and that I can produce such certification in writing upon request.**

Generator Signature \_\_\_\_\_ Printed Name \_\_\_\_\_

Company \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

## STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ - The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Profile Form, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

### **Definitions**

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Profile Form and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Profile Form (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

### **Control of Operations.**

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

### **Identification of Waste.**

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Profile Form containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Profile Form, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Profile Form.

### **Non-Conforming Wastes.**

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

### **Customer Warranty - Acceptable Wastes.**

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Profile Form. The information set forth in the Waste Profile Form or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

### **Customer Warranty - Title to Wastes.**

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

### **Customer Warranty - Compliance with Laws.**

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

### **Customer Warranty - Updating Information.**

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Profile Form, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

### **Customer Indemnity.**

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

### **Force Majeure.**

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

### **Governing Laws**

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

### **Bulk Disposal Charges**

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

**WASTE PROFILE FORM**

For assistance in completing this document or for additional information on service offerings, please visit our website at [www.usecology.com](http://www.usecology.com) or call 800-592-5489.

**US Ecology will choose the appropriate facility and method of waste management for your waste from the technologies offered at each operation.**

**If you wish to direct this waste to a specific facility(s) or treatment technology please indicate here:**

**Waste Common Name:** PICKLE LIQUOR

**Section 1 - Generator & Customer Information**

**Generator EPA ID #** FLD-981-932-494

**Generator** EQ FLORIDA, INC.

**Facility Address** 2002 N. ORIENT ROAD

**City** TAMPA **State** FL **Zip** 33619

**24-hour Emergency Response Number** (813) 319-3402

**Mailing Address** 7202 EAST 8TH AVENUE

**City** TAMPA **State** FL **Zip** 33619

**Generator Contact**

**Title**

**Phone** ( ) - **Fax** ( ) -

**E-mail**

*Internal Use Only: EQ Division*

**EQ Customer No.** 6696

**Invoicing Company** EQ FLORIDA INC

**Address** 7202 EAST 8TH AVENUE

**City** TAMPA **State** FL **Zip** 33619

**Country** USA

**Invoicing Contact**

**Phone** ( ) - **Fax** ( ) -

**Technical Contact**

**Phone** ( ) - **Fax** ( ) -

**Cell Phone** ( ) -

**E-mail**

**Section 2 - Shipping & Packaging Information**

2.1) Shipping Volume & Frequency:

a) Volume of Waste to be Shipped: 30-40 55 gallon

b) Frequency: ☐ One Time ☐ Month ☒ Quarter ☐ Year ☐ Other

2.2) DOT Information

a) Is this a U.S. Department of Transportation (USDOT) Hazardous Material? ☒ Yes ☐ No

b) If "Yes", indicate the proper shipping name per 49 CFR 172.101 Hazardous Materials Table:

RQ, UN3264, Waste, Corrosive liquid, acidic, inorganic, n.o.s.(Hydrofluoric Acid, Nitric Acid), 8, PGII, (K062, D002), ERG #154

**Section 3 - Special Properties**

3.1) Color BLACK/BROWN

3.2) Odor ☐ None ☐ Ammonia ☐ Amines ☐ Mercaptans ☐ Sulfur ☐ Organic Acid ☐ Amines/Ammonia

☒ Other: ACRID/MOD.

3.3) Consistency at 70 °F: ☒ Solid ☐ Dust/Powder ☐ Debris ☒ Sludge ☐ Liquid ☐ Gas/Aerosol ☐ Varies

3.4) What is the pH? ☒ ≤2 ☒ 2.1-4.9 ☒ 5-10 ☐ 10.1-12.4 ☐ ≥12.5 ☐ N/A

3.5) What is the flash point? ☐ <90 °F ☐ 90-139 °F ☒ 140-199 °F ☒ ≥200 °F ☐ N/A

3.6) Does this waste exhibit any of the following properties? (check all that apply)

- |  |  |  |   |                                      |
|--|--|--|---|--------------------------------------|
| <input type="checkbox"/> None                                    | <input checked="" type="checkbox"/> Free Liquids | <input type="checkbox"/> Metal Fines       | <input type="checkbox"/> Water Reactive   | <input type="checkbox"/> Biohazard   |
| <input type="checkbox"/> Shock Sensitive                         | <input type="checkbox"/> Oily Residue            | <input type="checkbox"/> Dioxins           | <input type="checkbox"/> Furans           | <input type="checkbox"/> Aluminum    |
| <input type="checkbox"/> Asbestos -non- friable                  | <input type="checkbox"/> Asbestos - friable      | <input type="checkbox"/> Other Radioactive | <input type="checkbox"/> Air Reactive     | <input type="checkbox"/> Isocyanates |
| <input type="checkbox"/> Biodegradable Sorbents                  | <input type="checkbox"/> Pyrophoric              | <input type="checkbox"/> Reactive Sulfide  | <input type="checkbox"/> Reactive Cyanide | <input type="checkbox"/> Explosives  |
| <input type="checkbox"/> Temperature Controlled Organic Peroxide | <input type="checkbox"/> NORM                    | <input type="checkbox"/> TENORM            |   |                                      |



## Section 4 - Composition and Generating Process

4.1) Provide a physical and chemical composition of the waste (e.g. soil, water, PPE, debris, etc.). List the percent ranges or the concentration of each component, either estimated or known.

Pickle Liquor 100. to 100. %

4.2) Provide a description of the generating process. *Remediation & IDW Sites: please provide a site history.*

Spent Pickle Liquor from pickling of stainless steel. Meets the definition of K062.

4.3) Are there any known previous handling or treatment issues involving this waste? ☐ Yes\* ☐ No

\*If yes, describe:

## Section 5 - Hazardous Wastes

As determined by 40 CFR, Part 261 and State Rules:

Please list applicable waste code(s):

5.1) Is this waste exempted from RCRA? ☐ Yes ☒ No

If Yes, please provide exemption:

5.2) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☒ Yes ☐ No K062

a) For F006-F009, F012, does this come from a generator that conducts a cyanide plating process? ☐ Yes ☐ No

5.3) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☒ Yes ☐ No D002 D007 D008

5.4) Do any State Specific Hazardous Waste Codes apply? ☐ Yes ☐ No

**If you answered 'no' to 5.2, 5.3 and 5.4, please proceed to Section 6.**

5.5) EPA Source Code: G25 EPA Form Code: W316

5.6) Waste Code Determination Is Based On: ☒ Generator Knowledge ☐ Analysis ☐ MSDS

*Analysis and/or MSDS may be required for review and approval for hazardous and non-hazardous waste streams.*

5.7) Does this waste exceed Land Disposal Restriction levels? ☒ Yes ☐ No

a) Is this stream a wastewater (WW) or non-wastewater (NWW)?

☐ WW ☒ NWW

b) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49?

☐ Yes ☐ No

c) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.)

☐ Yes ☐ No

d) If the debris is larger than 3 ft x 3 ft x 3 ft, please provide the approximate dimensions and weight:

5.8) If this is a characteristic hazardous waste, does it contain Underlying Hazardous Constituents? ☐ Yes\* ☐ No

\*If Yes, please list:

*For a complete list of UHC constituents, please refer to 40 CFR 268.48*

## Section 6 - Non-Hazardous Wastes

Please list applicable waste code(s):

6.1) Do any State Specific Non-Hazardous Waste Codes apply? ☐ Yes ☐ No

6.2) Is this a Universal (UNIV) waste or a Recyclable Good (RG) ? ☐ UNIV ☐ RG ☐ N/A

6.3) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes ☐ No

a) If yes, is the total halogen content of the used oil waste stream greater than 1,000 ppm? ☐ Yes ☐ No

b) If yes, what is the source of the halogen content?

☐ This is a metalworking oil/fluid containing chlorinated paraffins.

☐ This is a used oil contaminated with chlorofluorocarbons from refrigeration units.

☐ This oil contains halogenated solvents. List specific solvents:

☐ Other, describe:

## Section 7 - TSCA Information

- 7.1) What is the concentration of PCBs in the waste? ☒ None ☐ 0-49 ppm ☐ 50-499 ppm ☐ 500+ ppm
- 7.2) Does the waste contain PCB contamination from a source with a concentration  $\geq 50$  ppm? ☐ Yes ☒ No ☐ Unknown
- If you answered "none" or '0-49 ppm' to 7.1 and "no" to 7.2, please proceed to Section 8.**
- 7.3) Has this waste been processed into a non-liquid form? ☐ Yes\* ☐ No
- \*If yes, what was the concentration of PCBs prior to processing? ☐ 0-499 ppm ☐ 500+ ppm
- 7.4) Is this non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No
- 7.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No
- 7.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ Yes ☐ No ☒ N/A

## Section 8 - Clean Air Act Information

- 8.1) Is this waste subject to regulation under 40 CFR, Part 264, Subpart CC (VOC > 500 ppmw)? ☐ Yes ☒ No
- 8.2) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD (VOHAP > 500 ppmw)? ☐ Yes ☒ No
- 8.3) Is the site, or waste, subject to any other NESHAP/MACT standard(s)? ☐ Yes\* ☒ No
- \*If Yes this document serves as notification that this waste contains chemicals \_\_\_\_\_, required to be managed in accordance with Part ☐ 61 ☐ 62 ☐ 63 Subpart \_\_\_\_\_ of NESHAP/MACT standards.
- 8.4) Does this waste stream contain Benzene? ☐ Yes ☒ No
- If you answered "no" to 8.4, please proceed to Section 9.**
- 8.5) Does the waste stream come from a facility subject to 40 CFR 61, Subpart FF (Benzene NESHAP)? ☐ Yes ☐ No
- If Yes, please provide the SIC/NAICS code: \_\_\_\_\_
- If you answered "no" to 8.5, please proceed to Section 9.**
- 8.6) Does your facility manage the waste subject to Benzene NESHAP in a manner other than shipping off-site? ☐ Yes ☐ No
- If Yes, please specify: \_\_\_\_\_
- 8.7) Is the generating source of this waste a facility with Total Annual Benzene (TAB)  $\geq 10$  Mg/year? ☐ Yes ☐ No
- 8.8) Does the waste contain >10% water? ☐ Yes ☐ No
- 8.9) What is the TAB quantity for your facility? \_\_\_\_\_ 0 Mg/year
- 8.10) What is the total Benzene concentration in your waste? \_\_\_\_\_ Percent or \_\_\_\_\_ ppmw.
- Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.**

## Section 9 - Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's personnel to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's personnel to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

**If I am an agent acting on behalf of the generator, I also certify that I have permission to sign any and all waste characterization paperwork on the generator's behalf and that I can produce such certification in writing upon request.**

Generator Signature \_\_\_\_\_ Printed Name \_\_\_\_\_

Company \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

## STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ - The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Profile Form, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

### **Definitions**

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Profile Form and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Profile Form (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

### **Control of Operations.**

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

### **Identification of Waste.**

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Profile Form containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Profile Form, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Profile Form.

### **Non-Conforming Wastes.**

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

### **Customer Warranty - Acceptable Wastes.**

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Profile Form. The information set forth in the Waste Profile Form or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

### **Customer Warranty - Title to Wastes.**

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

### **Customer Warranty - Compliance with Laws.**

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

### **Customer Warranty - Updating Information.**

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Profile Form, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

### **Customer Indemnity.**

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

### **Force Majeure.**

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

### **Governing Laws**

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

### **Bulk Disposal Charges**

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

**WASTE PROFILE FORM**

For assistance in completing this document or for additional information on service offerings, please visit our website at [www.usecology.com](http://www.usecology.com) or call 800-592-5489.

**US Ecology will choose the appropriate facility and method of waste management for your waste from the technologies offered at each operation.**

**If you wish to direct this waste to a specific facility(s) or treatment technology please indicate here:**

**Waste Common Name:** GENERIC ACID: MINERAL ACIDS>30% CONCENTRATION

**Section 1 - Generator & Customer Information**

**Generator EPA ID #** FLD-981-932-494

**Generator** EQ FLORIDA, INC.

**Facility Address** 2002 N. ORIENT ROAD

**City** TAMPA **State** FL **Zip** 33619

**24-hour Emergency Response Number** (813) 319-3402

**Mailing Address** 7202 EAST 8TH AVENUE

**City** TAMPA **State** FL **Zip** 33619

**Generator Contact** Ken Dean

**Title** Operations Manager

**Phone** (813) 319-3433 **Fax** (813) 622-8765

**E-mail** Ken.Dean@usecology.com

*Internal Use Only: EQ Division*

EQ Customer No. 6696

**Invoicing Company** EQ FLORIDA INC

**Address** 7202 EAST 8TH AVENUE

**City** TAMPA **State** FL **Zip** 33619

**Country** USA

**Invoicing Contact** DENA EVERHARDT

**Phone** (813) 623-5302xt227 **Fax** (813) 626-7451

**Technical Contact** Ken Dean

**Phone** (813) 319-3433 **Fax** (813) 622-8765

**Cell Phone** ( ) -

**E-mail** Ken.Dean@usecology.com

**Section 2 - Shipping & Packaging Information**

2.1) Shipping Volume & Frequency:

a) Volume of Waste to be Shipped: 10-12 , Other: Varies

b) Frequency: ☐ One Time ☒ Month ☐ Quarter ☐ Year ☐ Other

2.2) DOT Information

a) Is this a U.S. Department of Transportation (USDOT) Hazardous Material? ☒ Yes ☐ No

b) If "Yes", indicate the proper shipping name per 49 CFR 172.101 Hazardous Materials Table:

UN3264, Waste, Corrosive liquid, acidic, inorganic, n.o.s., 8, PGII, ERG #154

**Section 3 - Special Properties**

3.1) Color VARIES

3.2) Odor ☐ None ☐ Ammonia ☐ Amines ☐ Mercaptans ☐ Sulfur ☐ Organic Acid ☐ Amines/Ammonia

☒ Other: Mild

3.3) Consistency at 70 °F: ☒ Solid ☐ Dust/Powder ☐ Debris ☐ Sludge ☒ Liquid ☐ Gas/Aerosol ☐ Varies

3.4) What is the pH? ☒ ≤2 ☒ 2.1-4.9 ☐ 5-10 ☐ 10.1-12.4 ☐ ≥12.5 ☐ N/A

3.5) What is the flash point? ☐ <90 °F ☐ 90-139 °F ☐ 140-199 °F ☒ ≥200 °F ☐ N/A

3.6) Does this waste exhibit any of the following properties? (check all that apply)

- |  |  |  |   |                                      |
|--|--|--|---|--------------------------------------|
| <input type="checkbox"/> None                                    | <input checked="" type="checkbox"/> Free Liquids | <input type="checkbox"/> Metal Fines       | <input type="checkbox"/> Water Reactive   | <input type="checkbox"/> Biohazard   |
| <input type="checkbox"/> Shock Sensitive                         | <input type="checkbox"/> Oily Residue            | <input type="checkbox"/> Dioxins           | <input type="checkbox"/> Furans           | <input type="checkbox"/> Aluminum    |
| <input type="checkbox"/> Asbestos -non- friable                  | <input type="checkbox"/> Asbestos - friable      | <input type="checkbox"/> Other Radioactive | <input type="checkbox"/> Air Reactive     | <input type="checkbox"/> Isocyanates |
| <input type="checkbox"/> Biodegradable Sorbents                  | <input type="checkbox"/> Pyrophoric              | <input type="checkbox"/> Reactive Sulfide  | <input type="checkbox"/> Reactive Cyanide | <input type="checkbox"/> Explosives  |
| <input type="checkbox"/> Temperature Controlled Organic Peroxide | <input type="checkbox"/> NORM                    | <input type="checkbox"/> TENORM            |   |                                      |

## Section 4 - Composition and Generating Process

4.1) Provide a physical and chemical composition of the waste (e.g. soil, water, PPE, debris, etc.). List the percent ranges or the concentration of each component, either estimated or known.

SOLUTIONS OF INORGANIC MINERAL ACIDS	100. to	100. %
HYDROCHLORIC ACID SOLUTION	0. to	100. %
PHOSPHORIC ACID SOLUTION	0. to	100. %
SULFURIC ACID SOLUTION	0. to	100. %

4.2) Provide a description of the generating process. *Remediation & IDW Sites: please provide a site history.*

NO FUMING ACIDS. NO CHROMIC, NITRIC, OR HYDROFLUORIC ACIDS. Acid concentration greater than 30% combined. Accumulation of non-listed mineral acids by TSDF. Waste may include expired products or spent solutions. <5000ppm Total RCRA/UHC Metals, <2000 ppm Cr, <500 ppm Cd, <150 ppm As, <260 ppm Hg total, <150 ppm Se, <150 ppm Sb, <10 mg/L Hg TCLP. No organic codes/UHCs. No free mercury. No Michigan codes. Combinations with other acid types must be profiled separately.

4.3) Are there any known previous handling or treatment issues involving this waste? ☐ Yes\* ☒ No

\*If yes, describe: \_\_\_\_\_

## Section 5 - Hazardous Wastes

As determined by 40 CFR, Part 261 and State Rules:

Please list applicable waste code(s):

5.1) Is this waste exempted from RCRA? ☐ Yes ☒ No

If Yes, please provide exemption: \_\_\_\_\_

5.2) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes ☒ No

a) For F006-F009, F012, does this come from a generator that conducts a cyanide plating process? ☐ Yes ☒ No

5.3) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☒ Yes ☐ No D002 D004 D005 D006 D007 D008 D009 D010 D011

5.4) Do any State Specific Hazardous Waste Codes apply? ☐ Yes ☐ No

**If you answered 'no' to 5.2, 5.3 and 5.4, please proceed to Section 6.**

5.5) EPA Source Code: G61 EPA Form Code: W103

5.6) Waste Code Determination Is Based On: ☐ Generator Knowledge ☐ Analysis ☐ MSDS

*Analysis and/or MSDS may be required for review and approval for hazardous and non-hazardous waste streams.*

5.7) Does this waste exceed Land Disposal Restriction levels? ☒ Yes ☐ No

a) Is this stream a wastewater (WW) or non-wastewater (NWW)? ☐ WW ☒ NWW

b) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ☐ Yes ☒ No

c) Does this waste contain greater than 50% debris, by volume? ☐ Yes ☒ No  
(Debris is greater than 2.5 inches in size.)

d) If the debris is larger than 3 ft x 3 ft x 3 ft, please provide the approximate dimensions and weight: \_\_\_\_\_

5.8) If this is a characteristic hazardous waste, does it contain Underlying Hazardous Constituents? ☒ Yes\* ☐ No

\*If Yes, please list: 200 Antimony, 201 Arsenic, 202 Barium, 203 Beryllium, 204 Cadmium, 205 Chromium, 209 Lead, 211 Mercury (all others), 212 Nickel, 214 Silver, 216 Thallium

*For a complete list of UHC constituents, please refer to 40 CFR 268.48*

## Section 6 - Non-Hazardous Wastes

Please list applicable waste code(s):

6.1) Do any State Specific Non-Hazardous Waste Codes apply? ☐ Yes ☒ No

6.2) Is this a Universal (UNIV) waste or a Recyclable Good (RG) ? ☐ UNIV ☐ RG ☒ N/A

6.3) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes ☒ No

a) If yes, is the total halogen content of the used oil waste stream greater than 1,000 ppm? ☐ Yes ☐ No

b) If yes, what is the source of the halogen content?

☐ This is a metalworking oil/fluid containing chlorinated paraffins.

☐ This is a used oil contaminated with chlorofluorocarbons from refrigeration units.

☐ This oil contains halogenated solvents. List specific solvents: \_\_\_\_\_

☐ Other, describe: \_\_\_\_\_

## Section 7 - TSCA Information

- 7.1) What is the concentration of PCBs in the waste? ☒ None ☐ 0-49 ppm ☐ 50-499 ppm ☐ 500+ ppm
- 7.2) Does the waste contain PCB contamination from a source with a concentration  $\geq 50$  ppm? ☐ Yes ☒ No ☐ Unknown
- If you answered "none" or '0-49 ppm' to 7.1 and "no" to 7.2, please proceed to Section 8.**
- 7.3) Has this waste been processed into a non-liquid form? ☐ Yes\* ☒ No
- \*If yes, what was the concentration of PCBs prior to processing? ☐ 0-499 ppm ☐ 500+ ppm
- 7.4) Is this non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No
- 7.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No
- 7.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ Yes ☐ No ☒ N/A

## Section 8 - Clean Air Act Information

- 8.1) Is this waste subject to regulation under 40 CFR, Part 264, Subpart CC (VOC > 500 ppmw)? ☐ Yes ☒ No
- 8.2) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD (VOHAP > 500 ppmw)? ☐ Yes ☒ No
- 8.3) Is the site, or waste, subject to any other NESHAP/MACT standard(s)? ☐ Yes\* ☒ No
- \*If Yes this document serves as notification that this waste contains chemicals \_\_\_\_\_, required to be managed in accordance with Part ☐ 61 ☐ 62 ☐ 63 Subpart \_\_\_\_\_ of NESHAP/MACT standards.
- 8.4) Does this waste stream contain Benzene? ☐ Yes ☒ No
- If you answered "no" to 8.4, please proceed to Section 9.**
- 8.5) Does the waste stream come from a facility subject to 40 CFR 61, Subpart FF (Benzene NESHAP)? ☐ Yes ☐ No
- If Yes, please provide the SIC/NAICS code: \_\_\_\_\_
- If you answered "no" to 8.5, please proceed to Section 9.**
- 8.6) Does your facility manage the waste subject to Benzene NESHAP in a manner other than shipping off-site? ☐ Yes ☐ No
- If Yes, please specify: \_\_\_\_\_
- 8.7) Is the generating source of this waste a facility with Total Annual Benzene (TAB)  $\geq 10$  Mg/year? ☐ Yes ☐ No
- 8.8) Does the waste contain >10% water? ☐ Yes ☐ No
- 8.9) What is the TAB quantity for your facility? \_\_\_\_\_ 0 Mg/year
- 8.10) What is the total Benzene concentration in your waste? \_\_\_\_\_ Percent or \_\_\_\_\_ ppmw.
- Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.**

## Section 9 - Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's personnel to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's personnel to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

**If I am an agent acting on behalf of the generator, I also certify that I have permission to sign any and all waste characterization paperwork on the generator's behalf and that I can produce such certification in writing upon request.**

Generator Signature \_\_\_\_\_ Printed Name Kenneth S. Dean

Company EQ FLorida, Inc. Title Operations Manager Date \_\_\_\_\_



## STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ - The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Profile Form, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

### **Definitions**

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Profile Form and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Profile Form (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

### **Control of Operations.**

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

### **Identification of Waste.**

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Profile Form containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Profile Form, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Profile Form.

### **Non-Conforming Wastes.**

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

### **Customer Warranty - Acceptable Wastes.**

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Profile Form. The information set forth in the Waste Profile Form or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

### **Customer Warranty - Title to Wastes.**

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

### **Customer Warranty - Compliance with Laws.**

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

### **Customer Warranty - Updating Information.**

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Profile Form, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

### **Customer Indemnity.**

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

### **Force Majeure.**

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

### **Governing Laws**

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

### **Bulk Disposal Charges**

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

**WASTE PROFILE FORM**

For assistance in completing this document or for additional information on service offerings, please visit our website at [www.usecology.com](http://www.usecology.com) or call 800-592-5489.

**US Ecology will choose the appropriate facility and method of waste management for your waste from the technologies offered at each operation.**

**If you wish to direct this waste to a specific facility(s) or treatment technology please indicate here:**

**Waste Common Name:** Mixed Dilute Acids <30% with Metals.

**Section 1 - Generator & Customer Information**

**Generator EPA ID #** FLD-981-932-494

**Generator** EQ FLORIDA, INC.

**Facility Address** 2002 N. ORIENT ROAD

**City** TAMPA **State** FL **Zip** 33619

**24-hour Emergency Response Number** (813) 319-3402

**Mailing Address** 7202 EAST 8TH AVENUE

**City** TAMPA **State** FL **Zip** 33619

**Generator Contact** Ken Dean

**Title** Operations Manager

**Phone** (813) 319-3433 **Fax** (813) 622-8765

**E-mail** Ken.Dean@usecology.com

*Internal Use Only: EQ Division*

EQ Customer No. 6696

**Invoicing Company** EQ FLORIDA INC

**Address** 7202 EAST 8TH AVENUE

**City** TAMPA **State** FL **Zip** 33619

**Country** USA

**Invoicing Contact** DENA EVERHARDT

**Phone** (813) 623-5302xt227 **Fax** (813) 626-7451

**Technical Contact** Ken Dean

**Phone** (813) 319-3433 **Fax** (813) 622-8765

**Cell Phone** ( ) -

**E-mail** Ken.Dean@usecology.com

**Section 2 - Shipping & Packaging Information**

2.1) Shipping Volume & Frequency:

a) Volume of Waste to be Shipped: Varies

b) Frequency: ☐ One Time ☒ Month ☐ Quarter ☐ Year ☐ Other

2.2) DOT Information

a) Is this a U.S. Department of Transportation (USDOT) Hazardous Material? ☒ Yes ☐ No

b) If "Yes", indicate the proper shipping name per 49 CFR 172.101 Hazardous Materials Table:

RQ, UN3264, Waste, Corrosive liquid, acidic, inorganic, n.o.s., 8, PGII, (D002), ERG #154

**Section 3 - Special Properties**

3.1) Color VARIES

3.2) Odor ☐ None ☐ Ammonia ☐ Amines ☐ Mercaptans ☐ Sulfur ☐ Organic Acid ☐ Amines/Ammonia

☒ Other: Mild

3.3) Consistency at 70 °F: ☐ Solid ☐ Dust/Powder ☐ Debris ☐ Sludge ☐ Liquid ☐ Gas/Aerosol ☒ Varies

3.4) What is the pH? ☒ ≤2 ☐ 2.1-4.9 ☐ 5-10 ☐ 10.1-12.4 ☐ ≥12.5 ☐ N/A

3.5) What is the flash point? ☐ <90 °F ☐ 90-139 °F ☐ 140-199 °F ☒ ≥200 °F ☐ N/A

3.6) Does this waste exhibit any of the following properties? (check all that apply)

- |  |  |  |   |                                      |
|--|--|--|---|--------------------------------------|
| <input type="checkbox"/> None                                    | <input checked="" type="checkbox"/> Free Liquids | <input type="checkbox"/> Metal Fines       | <input type="checkbox"/> Water Reactive   | <input type="checkbox"/> Biohazard   |
| <input type="checkbox"/> Shock Sensitive                         | <input type="checkbox"/> Oily Residue            | <input type="checkbox"/> Dioxins           | <input type="checkbox"/> Furans           | <input type="checkbox"/> Aluminum    |
| <input type="checkbox"/> Asbestos -non- friable                  | <input type="checkbox"/> Asbestos - friable      | <input type="checkbox"/> Other Radioactive | <input type="checkbox"/> Air Reactive     | <input type="checkbox"/> Isocyanates |
| <input type="checkbox"/> Biodegradable Sorbents                  | <input type="checkbox"/> Pyrophoric              | <input type="checkbox"/> Reactive Sulfide  | <input type="checkbox"/> Reactive Cyanide | <input type="checkbox"/> Explosives  |
| <input type="checkbox"/> Temperature Controlled Organic Peroxide | <input type="checkbox"/> NORM                    | <input type="checkbox"/> TENORM            |   |                                      |

## Section 4 - Composition and Generating Process

4.1) Provide a physical and chemical composition of the waste (e.g. soil, water, PPE, debris, etc.). List the percent ranges or the concentration of each component, either estimated or known.

<30% SOLUTION OF INORGANIC MINERAL ACID	100. to	100. %
<30% SOLUTION OF HYDROCHLORIC ACID	0. to	100. %
<30% SOLUTION OF PHOSPHORIC ACID	0. to	100. %
<30% SOLUTION OF SULFURIC ACID	0. to	100. %

4.2) Provide a description of the generating process. *Remediation & IDW Sites: please provide a site history.*

NO FUMING ACIDS. NO CHROMIC, NITRIC, OR HYDROFLUORIC ACIDS. Acid concentration less than 30% combined. Accumulation of non-listed mineral acids by TSDF. Waste may include expired products or spent solutions. <5000ppm Total RCRA/UHC Metals, <2000 ppm Cr, <500 ppm Cd, <150 ppm As, <260 ppm Hg total, <150 ppm Se, <150 ppm Sb, <10 mg/L Hg TCLP. No organic codes/UHCs. No free mercury. No Michigan codes. Combinations with other acid types must be profiled separately.

4.3) Are there any known previous handling or treatment issues involving this waste? ☐ Yes\* ☒ No

\*If yes, describe: \_\_\_\_\_

## Section 5 - Hazardous Wastes

As determined by 40 CFR, Part 261 and State Rules:

Please list applicable waste code(s):

5.1) Is this waste exempted from RCRA? ☐ Yes ☒ No

If Yes, please provide exemption: \_\_\_\_\_

5.2) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes ☒ No

a) For F006-F009, F012, does this come from a generator that conducts a cyanide plating process? ☐ Yes ☒ No

5.3) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☒ Yes ☐ No D002 D004 D005 D006 D007 D008 D009 D010 D011

5.4) Do any State Specific Hazardous Waste Codes apply? ☐ Yes ☐ No 0003110H 0003110H 0004105H 0005319H

**If you answered 'no' to 5.2, 5.3 and 5.4, please proceed to Section 6.**

5.5) EPA Source Code: G61 EPA Form Code: W103

5.6) Waste Code Determination Is Based On: ☒ Generator Knowledge ☐ Analysis ☐ MSDS

*Analysis and/or MSDS may be required for review and approval for hazardous and non-hazardous waste streams.*

5.7) Does this waste exceed Land Disposal Restriction levels? ☒ Yes ☐ No

a) Is this stream a wastewater (WW) or non-wastewater (NWW)? ☐ WW ☒ NWW

b) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? ☐ Yes ☒ No

c) Does this waste contain greater than 50% debris, by volume? ☐ Yes ☒ No  
(Debris is greater than 2.5 inches in size.)

d) If the debris is larger than 3 ft x 3 ft x 3 ft, please provide the approximate dimensions and weight: \_\_\_\_\_

5.8) If this is a characteristic hazardous waste, does it contain Underlying Hazardous Constituents? ☒ Yes\* ☐ No

\*If Yes, please list: 200 Antimony, 201 Arsenic, 203 Beryllium, 209 Lead, 211 Mercury (all others), 212 Nickel, 214 Silver, 216 Thallium

*For a complete list of UHC constituents, please refer to 40 CFR 268.48*

## Section 6 - Non-Hazardous Wastes

Please list applicable waste code(s):

6.1) Do any State Specific Non-Hazardous Waste Codes apply? ☐ Yes ☒ No

6.2) Is this a Universal (UNIV) waste or a Recyclable Good (RG) ? ☐ UNIV ☐ RG ☒ N/A

6.3) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes ☒ No

a) If yes, is the total halogen content of the used oil waste stream greater than 1,000 ppm? ☐ Yes ☐ No

b) If yes, what is the source of the halogen content?

☐ This is a metalworking oil/fluid containing chlorinated paraffins.

☐ This is a used oil contaminated with chlorofluorocarbons from refrigeration units.

☐ This oil contains halogenated solvents. List specific solvents: \_\_\_\_\_

☐ Other, describe: \_\_\_\_\_

## Section 7 - TSCA Information

- 7.1) What is the concentration of PCBs in the waste? ☒ None ☐ 0-49 ppm ☐ 50-499 ppm ☐ 500+ ppm
- 7.2) Does the waste contain PCB contamination from a source with a concentration  $\geq 50$  ppm? ☐ Yes ☒ No ☐ Unknown
- If you answered "none" or '0-49 ppm' to 7.1 and "no" to 7.2, please proceed to Section 8.**
- 7.3) Has this waste been processed into a non-liquid form? ☐ Yes\* ☐ No  
\*If yes, what was the concentration of PCBs prior to processing? ☐ 0-499 ppm ☐ 500+ ppm
- 7.4) Is this non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No
- 7.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No
- 7.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ Yes ☐ No ☒ N/A

## Section 8 - Clean Air Act Information

- 8.1) Is this waste subject to regulation under 40 CFR, Part 264, Subpart CC (VOC > 500 ppmw)? ☐ Yes ☒ No
- 8.2) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD (VOHAP > 500 ppmw)? ☐ Yes ☒ No
- 8.3) Is the site, or waste, subject to any other NESHAP/MACT standard(s)? ☐ Yes\* ☒ No
- \*If Yes this document serves as notification that this waste contains chemicals \_\_\_\_\_, required to be managed in accordance with Part ☐ 61 ☐ 62 ☐ 63 Subpart \_\_\_\_\_ of NESHAP/MACT standards.
- 8.4) Does this waste stream contain Benzene? ☐ Yes ☒ No
- If you answered "no" to 8.4, please proceed to Section 9.**
- 8.5) Does the waste stream come from a facility subject to 40 CFR 61, Subpart FF (Benzene NESHAP)? ☐ Yes ☐ No
- If Yes, please provide the SIC/NAICS code: \_\_\_\_\_
- If you answered "no" to 8.5, please proceed to Section 9.**
- 8.6) Does your facility manage the waste subject to Benzene NESHAP in a manner other than shipping off-site? ☐ Yes ☐ No
- If Yes, please specify: \_\_\_\_\_
- 8.7) Is the generating source of this waste a facility with Total Annual Benzene (TAB)  $\geq 10$  Mg/year? ☐ Yes ☐ No
- 8.8) Does the waste contain >10% water? ☐ Yes ☐ No
- 8.9) What is the TAB quantity for your facility? \_\_\_\_\_ 0 Mg/year
- 8.10) What is the total Benzene concentration in your waste? \_\_\_\_\_ Percent or \_\_\_\_\_ ppmw.
- Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.**

## Section 9 - Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's personnel to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's personnel to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

**If I am an agent acting on behalf of the generator, I also certify that I have permission to sign any and all waste characterization paperwork on the generator's behalf and that I can produce such certification in writing upon request.**

Generator Signature \_\_\_\_\_ Printed Name Kenneth S. Dean

Company EQ Florida, Inc. Title Operations Manager Date \_\_\_\_\_

## STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ - The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Profile Form, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

### **Definitions**

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Profile Form and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Profile Form (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

### **Control of Operations.**

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

### **Identification of Waste.**

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Profile Form containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Profile Form, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Profile Form.

### **Non-Conforming Wastes.**

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

### **Customer Warranty - Acceptable Wastes.**

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Profile Form. The information set forth in the Waste Profile Form or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

### **Customer Warranty - Title to Wastes.**

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

### **Customer Warranty - Compliance with Laws.**

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

### **Customer Warranty - Updating Information.**

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Profile Form, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

### **Customer Indemnity.**

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

### **Force Majeure.**

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

### **Governing Laws**

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

### **Bulk Disposal Charges**

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

**WASTE PROFILE FORM**

For assistance in completing this document or for additional information on service offerings, please visit our website at [www.usecology.com](http://www.usecology.com) or call 800-592-5489.

**US Ecology will choose the appropriate facility and method of waste management for your waste from the technologies offered at each operation.**

**If you wish to direct this waste to a specific facility(s) or treatment technology please indicate here:**

**Waste Common Name:** GENERIC ACID : NITRIC ACID (10-65%)

**Section 1 - Generator & Customer Information**

**Generator EPA ID #** FLD-981-932-494

**Generator** EQ FLORIDA, INC.

**Facility Address** 2002 N. ORIENT ROAD

**City** TAMPA **State** FL **Zip** 33619

**24-hour Emergency Response Number** (813) 319-3402

**Mailing Address** 7202 EAST 8TH AVENUE

**City** TAMPA **State** FL **Zip** 33619

**Generator Contact** Ken Dean

**Title** Operations Manager

**Phone** (813) 319-3433 **Fax** (813) 622-8765

**E-mail** Ken.Dean@usecology.com

*Internal Use Only: EQ Division*

EQ Customer No. 6696

**Invoicing Company** EQ FLORIDA INC

**Address** 7202 EAST 8TH AVENUE

**City** TAMPA **State** FL **Zip** 33619

**Country** USA

**Invoicing Contact** DENA EVERHARDT

**Phone** (813) 623-5302xt227 **Fax** (813) 626-7451

**Technical Contact** Ken Dean

**Phone** (813) 319-3433 **Fax** (813) 622-8765

**Cell Phone** ( ) -

**E-mail** Ken.Dean@usecology.com

**Section 2 - Shipping & Packaging Information**

2.1) Shipping Volume & Frequency:

a) Volume of Waste to be Shipped: Varies

b) Frequency: ☐ One Time ☐ Month ☐ Quarter ☒ Year ☐ Other

2.2) DOT Information

a) Is this a U.S. Department of Transportation (USDOT) Hazardous Material? ☒ Yes ☐ No

b) If "Yes", indicate the proper shipping name per 49 CFR 172.101 Hazardous Materials Table:

UN3264, Waste, Corrosive liquid, acidic, inorganic, n.o.s., 8, PGII, ERG #154

**Section 3 - Special Properties**

3.1) Color VARIES

3.2) Odor ☐ None ☐ Ammonia ☐ Amines ☐ Mercaptans ☐ Sulfur ☐ Organic Acid ☐ Amines/Ammonia

☒ Other: NONE TO MILD

3.3) Consistency at 70 °F: ☐ Solid ☐ Dust/Powder ☐ Debris ☐ Sludge ☒ Liquid ☐ Gas/Aerosol ☐ Varies

3.4) What is the pH? ☒ ≤2 ☒ 2.1-4.9 ☐ 5-10 ☐ 10.1-12.4 ☐ ≥12.5 ☐ N/A

3.5) What is the flash point? ☐ <90 °F ☐ 90-139 °F ☐ 140-199 °F ☒ ≥200 °F ☐ N/A

3.6) Does this waste exhibit any of the following properties? (check all that apply)

- |  |  |  |   |                                      |
|--|--|--|---|--------------------------------------|
| <input type="checkbox"/> None                                    | <input checked="" type="checkbox"/> Free Liquids | <input type="checkbox"/> Metal Fines       | <input type="checkbox"/> Water Reactive   | <input type="checkbox"/> Biohazard   |
| <input type="checkbox"/> Shock Sensitive                         | <input type="checkbox"/> Oily Residue            | <input type="checkbox"/> Dioxins           | <input type="checkbox"/> Furans           | <input type="checkbox"/> Aluminum    |
| <input type="checkbox"/> Asbestos -non- friable                  | <input type="checkbox"/> Asbestos - friable      | <input type="checkbox"/> Other Radioactive | <input type="checkbox"/> Air Reactive     | <input type="checkbox"/> Isocyanates |
| <input type="checkbox"/> Biodegradable Sorbents                  | <input type="checkbox"/> Pyrophoric              | <input type="checkbox"/> Reactive Sulfide  | <input type="checkbox"/> Reactive Cyanide | <input type="checkbox"/> Explosives  |
| <input type="checkbox"/> Temperature Controlled Organic Peroxide | <input type="checkbox"/> NORM                    | <input type="checkbox"/> TENORM            |   |                                      |



## Section 4 - Composition and Generating Process

4.1) Provide a physical and chemical composition of the waste (e.g. soil, water, PPE, debris, etc.). List the percent ranges or the concentration of each component, either estimated or known.

Solution of Nitric Acid	10. to	65. %
Water	35. to	90. %

4.2) Provide a description of the generating process. *Remediation & IDW Sites: please provide a site history.*

NO FUMING ACIDS. Acid concentration must be <70%. An accumulation of nitric acid solutions collected at a TSDF. Waste may include expired products and spent solutions. No listed waste is included. <5000 ppm total RCRA/UHC metals. <2000 mg/kg chromium, <500 ppm cadmium, <150 ppm arsenic, <260 ppm total mercury, <10 ppm TCLP mercury, <150 ppm selenium, <150 ppm antimony. No free mercury. Combinations with other acid types must be profiled separately.

4.3) Are there any known previous handling or treatment issues involving this waste? ☐ Yes\* ☐ No

\*If yes, describe: \_\_\_\_\_

## Section 5 - Hazardous Wastes

As determined by 40 CFR, Part 261 and State Rules:

Please list applicable waste code(s):

5.1) Is this waste exempted from RCRA? ☐ Yes ☒ No

If Yes, please provide exemption: \_\_\_\_\_

5.2) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes ☐ No

a) For F006-F009, F012, does this come from a generator that conducts a cyanide plating process? ☐ Yes ☐ No

5.3) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☒ Yes ☐ No D002 D004 D005 D006 D007 D008 D009 D010 D011

5.4) Do any State Specific Hazardous Waste Codes apply? ☐ Yes ☐ No

**If you answered 'no' to 5.2, 5.3 and 5.4, please proceed to Section 6.**

5.5) EPA Source Code: G61 EPA Form Code: W103

5.6) Waste Code Determination Is Based On: ☒ Generator Knowledge ☐ Analysis ☐ MSDS

*Analysis and/or MSDS may be required for review and approval for hazardous and non-hazardous waste streams.*

5.7) Does this waste exceed Land Disposal Restriction levels? ☒ Yes ☐ No

a) Is this stream a wastewater (WW) or non-wastewater (NWW)?

☐ WW ☒ NWW

b) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49?

☐ Yes ☐ No

c) Does this waste contain greater than 50% debris, by volume?  
(Debris is greater than 2.5 inches in size.)

☐ Yes ☐ No

d) If the debris is larger than 3 ft x 3 ft x 3 ft, please provide the approximate dimensions and weight:

5.8) If this is a characteristic hazardous waste, does it contain Underlying Hazardous Constituents? ☐ Yes\* ☐ No

\*If Yes, please list: 200 Antimony, 201 Arsenic, 202 Barium, 203 Beryllium, 204 Cadmium, 205 Chromium, 209 Lead, 211 Mercury (all others), 212 Nickel, 214 Silver, 216 Thallium

*For a complete list of UHC constituents, please refer to 40 CFR 268.48*

## Section 6 - Non-Hazardous Wastes

Please list applicable waste code(s):

6.1) Do any State Specific Non-Hazardous Waste Codes apply? ☐ Yes ☐ No

6.2) Is this a Universal (UNIV) waste or a Recyclable Good (RG) ? ☐ UNIV ☐ RG ☐ N/A

6.3) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes ☐ No

a) If yes, is the total halogen content of the used oil waste stream greater than 1,000 ppm? ☐ Yes ☐ No

b) If yes, what is the source of the halogen content?

☐ This is a metalworking oil/fluid containing chlorinated paraffins.

☐ This is a used oil contaminated with chlorofluorocarbons from refrigeration units.

☐ This oil contains halogenated solvents. List specific solvents: \_\_\_\_\_

☐ Other, describe: \_\_\_\_\_

## Section 7 - TSCA Information

- 7.1) What is the concentration of PCBs in the waste? ☒ None ☐ 0-49 ppm ☐ 50-499 ppm ☐ 500+ ppm
- 7.2) Does the waste contain PCB contamination from a source with a concentration  $\geq 50$  ppm? ☐ Yes ☒ No ☐ Unknown
- If you answered "none" or '0-49 ppm' to 7.1 and "no" to 7.2, please proceed to Section 8.**
- 7.3) Has this waste been processed into a non-liquid form? ☐ Yes\* ☐ No
- \*If yes, what was the concentration of PCBs prior to processing? ☐ 0-499 ppm ☐ 500+ ppm
- 7.4) Is this non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No
- 7.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No
- 7.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ Yes ☐ No ☒ N/A

## Section 8 - Clean Air Act Information

- 8.1) Is this waste subject to regulation under 40 CFR, Part 264, Subpart CC (VOC > 500 ppmw)? ☐ Yes ☒ No
- 8.2) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD (VOHAP > 500 ppmw)? ☐ Yes ☒ No
- 8.3) Is the site, or waste, subject to any other NESHAP/MACT standard(s)? ☐ Yes\* ☒ No
- \*If Yes this document serves as notification that this waste contains chemicals \_\_\_\_\_, required to be managed in accordance with Part ☐ 61 ☐ 62 ☐ 63 Subpart \_\_\_\_\_ of NESHAP/MACT standards.
- 8.4) Does this waste stream contain Benzene? ☐ Yes ☒ No
- If you answered "no" to 8.4, please proceed to Section 9.**
- 8.5) Does the waste stream come from a facility subject to 40 CFR 61, Subpart FF (Benzene NESHAP)? ☐ Yes ☐ No
- If Yes, please provide the SIC/NAICS code: \_\_\_\_\_
- If you answered "no" to 8.5, please proceed to Section 9.**
- 8.6) Does your facility manage the waste subject to Benzene NESHAP in a manner other than shipping off-site? ☐ Yes ☐ No
- If Yes, please specify: \_\_\_\_\_
- 8.7) Is the generating source of this waste a facility with Total Annual Benzene (TAB)  $\geq 10$  Mg/year? ☐ Yes ☐ No
- 8.8) Does the waste contain >10% water? ☐ Yes ☐ No
- 8.9) What is the TAB quantity for your facility? \_\_\_\_\_ 0 Mg/year
- 8.10) What is the total Benzene concentration in your waste? \_\_\_\_\_ Percent or \_\_\_\_\_ ppmw.
- Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.**

## Section 9 - Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's personnel to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's personnel to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

**If I am an agent acting on behalf of the generator, I also certify that I have permission to sign any and all waste characterization paperwork on the generator's behalf and that I can produce such certification in writing upon request.**

Generator Signature \_\_\_\_\_ Printed Name \_\_\_\_\_

Company \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

## STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ - The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Profile Form, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

### **Definitions**

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Profile Form and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Profile Form (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

### **Control of Operations.**

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

### **Identification of Waste.**

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Profile Form containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Profile Form, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Profile Form.

### **Non-Conforming Wastes.**

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

### **Customer Warranty - Acceptable Wastes.**

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Profile Form. The information set forth in the Waste Profile Form or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

### **Customer Warranty - Title to Wastes.**

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

### **Customer Warranty - Compliance with Laws.**

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

### **Customer Warranty - Updating Information.**

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Profile Form, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

### **Customer Indemnity.**

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

### **Force Majeure.**

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

### **Governing Laws**

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

### **Bulk Disposal Charges**

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

**WASTE PROFILE FORM**

For assistance in completing this document or for additional information on service offerings, please visit our website at [www.usecology.com](http://www.usecology.com) or call 800-592-5489.

**US Ecology will choose the appropriate facility and method of waste management for your waste from the technologies offered at each operation.**

**If you wish to direct this waste to a specific facility(s) or treatment technology please indicate here:**

**Waste Common Name:** GENERIC ACID: NITRIC ACID<30% CONCENTRATION

**Section 1 - Generator & Customer Information**

**Generator EPA ID #** FLD-981-932-494

**Generator** EQ FLORIDA, INC.

**Facility Address** 2002 N. ORIENT ROAD

**City** TAMPA **State** FL **Zip** 33619

**24-hour Emergency Response Number** (813) 319-3402

**Mailing Address** 7202 EAST 8TH AVENUE

**City** TAMPA **State** FL **Zip** 33619

**Generator Contact** Ken Dean

**Title** Operations Manager

**Phone** (813) 319-3433 **Fax** (813) 622-8765

**E-mail** Ken.Dean@usecology.com

*Internal Use Only: EQ Division*

EQ Customer No. 6696

**Invoicing Company** EQ FLORIDA INC

**Address** 7202 EAST 8TH AVENUE

**City** TAMPA **State** FL **Zip** 33619

**Country** USA

**Invoicing Contact** DENA EVERHARDT

**Phone** (813) 623-5302xt227 **Fax** (813) 626-7451

**Technical Contact** Ken Dean

**Phone** (813) 319-3433 **Fax** (813) 622-8765

**Cell Phone** ( ) -

**E-mail** Ken.Dean@usecology.com

**Section 2 - Shipping & Packaging Information**

2.1) Shipping Volume & Frequency:

a) Volume of Waste to be Shipped: Varies

b) Frequency: ☐ One Time ☒ Month ☐ Quarter ☐ Year ☐ Other

2.2) DOT Information

a) Is this a U.S. Department of Transportation (USDOT) Hazardous Material? ☒ Yes ☐ No

b) If "Yes", indicate the proper shipping name per 49 CFR 172.101 Hazardous Materials Table:

RQ, UN2031, Waste, Nitric acid mixtures, 8, PGII, (D002), ERG #154

**Section 3 - Special Properties**

3.1) Color VARIES

3.2) Odor ☐ None ☐ Ammonia ☐ Amines ☐ Mercaptans ☐ Sulfur ☐ Organic Acid ☐ Amines/Ammonia

☒ Other: Mild

3.3) Consistency at 70 °F: ☐ Solid ☐ Dust/Powder ☐ Debris ☐ Sludge ☒ Liquid ☐ Gas/Aerosol ☐ Varies

3.4) What is the pH? ☒ ≤2 ☐ 2.1-4.9 ☐ 5-10 ☐ 10.1-12.4 ☐ ≥12.5 ☐ N/A

3.5) What is the flash point? ☐ <90 °F ☐ 90-139 °F ☐ 140-199 °F ☒ ≥200 °F ☐ N/A

3.6) Does this waste exhibit any of the following properties? (check all that apply)

- |  |  |  |   |                                      |
|--|--|--|---|--------------------------------------|
| <input type="checkbox"/> None                                    | <input checked="" type="checkbox"/> Free Liquids | <input type="checkbox"/> Metal Fines       | <input type="checkbox"/> Water Reactive   | <input type="checkbox"/> Biohazard   |
| <input type="checkbox"/> Shock Sensitive                         | <input type="checkbox"/> Oily Residue            | <input type="checkbox"/> Dioxins           | <input type="checkbox"/> Furans           | <input type="checkbox"/> Aluminum    |
| <input type="checkbox"/> Asbestos -non- friable                  | <input type="checkbox"/> Asbestos - friable      | <input type="checkbox"/> Other Radioactive | <input type="checkbox"/> Air Reactive     | <input type="checkbox"/> Isocyanates |
| <input type="checkbox"/> Biodegradable Sorbents                  | <input type="checkbox"/> Pyrophoric              | <input type="checkbox"/> Reactive Sulfide  | <input type="checkbox"/> Reactive Cyanide | <input type="checkbox"/> Explosives  |
| <input type="checkbox"/> Temperature Controlled Organic Peroxide | <input type="checkbox"/> NORM                    | <input type="checkbox"/> TENORM            |   |                                      |

## Section 4 - Composition and Generating Process

4.1) Provide a physical and chemical composition of the waste (e.g. soil, water, PPE, debris, etc.). List the percent ranges or the concentration of each component, either estimated or known.

SOLUTIONS OF NITRIC ACID	0. to	20. %
WATER	80. to	100. %

4.2) Provide a description of the generating process. *Remediation & IDW Sites: please provide a site history.*

NO FUMING ACIDS. Acid concentration must be <30%. An accumulation of nitric acid solutions collected at a TSDF. Waste may include expired products and spent solutions. No listed waste is included. <5000 ppm total RCRA/UHC metals. <2000 mg/kg chromium, <500 ppm cadmium, <150 ppm arsenic, <260 ppm total mercury, <10 ppm TCLP mercury, <150 ppm selenium, <150 ppm antimony. No free mercury. Combinations with other acid types must be profiled separately.

4.3) Are there any known previous handling or treatment issues involving this waste? ☐ Yes\* ☒ No

\*If yes, describe: \_\_\_\_\_

## Section 5 - Hazardous Wastes

As determined by 40 CFR, Part 261 and State Rules:

Please list applicable waste code(s):

5.1) Is this waste exempted from RCRA? ☐ Yes ☒ No

If Yes, please provide exemption: \_\_\_\_\_

5.2) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes ☒ No

a) For F006-F009, F012, does this come from a generator that conducts a cyanide plating process? ☐ Yes ☒ No

5.3) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☒ Yes ☐ No D002 D004 D005 D006 D007 D008 D009 D010 D011

5.4) Do any State Specific Hazardous Waste Codes apply? ☐ Yes ☐ No

**If you answered 'no' to 5.2, 5.3 and 5.4, please proceed to Section 6.**

5.5) EPA Source Code: G61 EPA Form Code: W103

5.6) Waste Code Determination Is Based On: ☒ Generator Knowledge ☐ Analysis ☐ MSDS

*Analysis and/or MSDS may be required for review and approval for hazardous and non-hazardous waste streams.*

5.7) Does this waste exceed Land Disposal Restriction levels? ☒ Yes ☐ No

a) Is this stream a wastewater (WW) or non-wastewater (NWW)?

☐ WW ☒ NWW

b) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49?

☐ Yes ☒ No

c) Does this waste contain greater than 50% debris, by volume?  
(Debris is greater than 2.5 inches in size.)

☐ Yes ☒ No

d) If the debris is larger than 3 ft x 3 ft x 3 ft, please provide the approximate dimensions and weight:

5.8) If this is a characteristic hazardous waste, does it contain Underlying Hazardous Constituents? ☒ Yes\* ☐ No

\*If Yes, please list: 200 Antimony, 201 Arsenic, 202 Barium, 203 Beryllium, 204 Cadmium, 205 Chromium, 209 Lead, 211 Mercury (all others), 212 Nickel, 213 Selenium, 214 Silver, 216 Thallium

*For a complete list of UHC constituents, please refer to 40 CFR 268.48*

## Section 6 - Non-Hazardous Wastes

Please list applicable waste code(s):

6.1) Do any State Specific Non-Hazardous Waste Codes apply? ☐ Yes ☒ No

6.2) Is this a Universal (UNIV) waste or a Recyclable Good (RG)? ☐ UNIV ☐ RG ☒ N/A

6.3) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes ☒ No

a) If yes, is the total halogen content of the used oil waste stream greater than 1,000 ppm? ☐ Yes ☐ No

b) If yes, what is the source of the halogen content?

☐ This is a metalworking oil/fluid containing chlorinated paraffins.

☐ This is a used oil contaminated with chlorofluorocarbons from refrigeration units.

☐ This oil contains halogenated solvents. List specific solvents: \_\_\_\_\_

☐ Other, describe: \_\_\_\_\_

## Section 7 - TSCA Information

- 7.1) What is the concentration of PCBs in the waste? ☒ None ☐ 0-49 ppm ☐ 50-499 ppm ☐ 500+ ppm
- 7.2) Does the waste contain PCB contamination from a source with a concentration  $\geq 50$  ppm? ☐ Yes ☒ No ☐ Unknown
- If you answered "none" or '0-49 ppm' to 7.1 and "no" to 7.2, please proceed to Section 8.**
- 7.3) Has this waste been processed into a non-liquid form? ☐ Yes\* ☐ No
- \*If yes, what was the concentration of PCBs prior to processing? ☐ 0-499 ppm ☐ 500+ ppm
- 7.4) Is this non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No
- 7.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No
- 7.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ Yes ☐ No ☒ N/A

## Section 8 - Clean Air Act Information

- 8.1) Is this waste subject to regulation under 40 CFR, Part 264, Subpart CC (VOC > 500 ppmw)? ☐ Yes ☒ No
- 8.2) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD (VOHAP > 500 ppmw)? ☐ Yes ☒ No
- 8.3) Is the site, or waste, subject to any other NESHAP/MACT standard(s)? ☐ Yes\* ☒ No
- \*If Yes this document serves as notification that this waste contains chemicals \_\_\_\_\_, required to be managed in accordance with Part ☐ 61 ☐ 62 ☐ 63 Subpart \_\_\_\_\_ of NESHAP/MACT standards.
- 8.4) Does this waste stream contain Benzene? ☐ Yes ☒ No
- If you answered "no" to 8.4, please proceed to Section 9.**
- 8.5) Does the waste stream come from a facility subject to 40 CFR 61, Subpart FF (Benzene NESHAP)? ☐ Yes ☐ No
- If Yes, please provide the SIC/NAICS code: \_\_\_\_\_
- If you answered "no" to 8.5, please proceed to Section 9.**
- 8.6) Does your facility manage the waste subject to Benzene NESHAP in a manner other than shipping off-site? ☐ Yes ☐ No
- If Yes, please specify: \_\_\_\_\_
- 8.7) Is the generating source of this waste a facility with Total Annual Benzene (TAB)  $\geq 10$  Mg/year? ☐ Yes ☐ No
- 8.8) Does the waste contain >10% water? ☐ Yes ☐ No
- 8.9) What is the TAB quantity for your facility? \_\_\_\_\_ 0 Mg/year
- 8.10) What is the total Benzene concentration in your waste? \_\_\_\_\_ Percent or \_\_\_\_\_ ppmw.
- Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.**

## Section 9 - Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's personnel to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's personnel to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

**If I am an agent acting on behalf of the generator, I also certify that I have permission to sign any and all waste characterization paperwork on the generator's behalf and that I can produce such certification in writing upon request.**

Generator Signature \_\_\_\_\_ Printed Name Kenneth S. Dean

Company EQ Florida, Inc. Title Operations Manager Date \_\_\_\_\_

## STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ - The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Profile Form, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

### **Definitions**

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Profile Form and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Profile Form (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

### **Control of Operations.**

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

### **Identification of Waste.**

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Profile Form containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Profile Form, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Profile Form.

### **Non-Conforming Wastes.**

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

### **Customer Warranty - Acceptable Wastes.**

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Profile Form. The information set forth in the Waste Profile Form or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

### **Customer Warranty - Title to Wastes.**

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

### **Customer Warranty - Compliance with Laws.**

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

### **Customer Warranty - Updating Information.**

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Profile Form, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

### **Customer Indemnity.**

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

### **Force Majeure.**

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

### **Governing Laws**

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

### **Bulk Disposal Charges**

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.



**WASTE PROFILE FORM**

For assistance in completing this document or for additional information on service offerings, please visit our website at [www.usecology.com](http://www.usecology.com) or call 800-592-5489.

**US Ecology will choose the appropriate facility and method of waste management for your waste from the technologies offered at each operation.**

**If you wish to direct this waste to a specific facility(s) or treatment technology please indicate here:**

**Waste Common Name:** GENERIC ACID: ORGANIC ACID SOLUTIONS

**Section 1 - Generator & Customer Information**

**Generator EPA ID #** FLD-981-932-494

**Generator** EQ FLORIDA, INC.

**Facility Address** 2002 N. ORIENT ROAD

**City** TAMPA **State** FL **Zip** 33619

**24-hour Emergency Response Number** (813) 319-3402

**Mailing Address** 7202 EAST 8TH AVENUE

**City** TAMPA **State** FL **Zip** 33619

**Generator Contact** Ken Dean

**Title** Operations Manager

**Phone** (813) 319-3433 **Fax** (813) 622-8765

**E-mail** Ken.Dean@usecology.com

*Internal Use Only: EQ Division*

EQ Customer No. 6696

**Invoicing Company** EQ FLORIDA INC

**Address** 7202 EAST 8TH AVENUE

**City** TAMPA **State** FL **Zip** 33619

**Country** USA

**Invoicing Contact** DENA EVERHARDT

**Phone** (813) 623-5302xt227 **Fax** (813) 626-7451

**Technical Contact** Ken Dean

**Phone** (813) 319-3433 **Fax** (813) 622-8765

**Cell Phone** ( ) -

**E-mail** Ken.Dean@usecology.com

**Section 2 - Shipping & Packaging Information**

2.1) Shipping Volume & Frequency:

a) Volume of Waste to be Shipped: Varies

b) Frequency: ☐ One Time ☐ Month ☐ Quarter ☒ Year ☐ Other

2.2) DOT Information

a) Is this a U.S. Department of Transportation (USDOT) Hazardous Material? ☒ Yes ☐ No

b) If "Yes", indicate the proper shipping name per 49 CFR 172.101 Hazardous Materials Table:

UN3265, Waste, Corrosive liquid, acidic, organic, n.o.s., 8, PGII, ERG #153

**Section 3 - Special Properties**

3.1) Color VARIES

3.2) Odor ☐ None ☐ Ammonia ☐ Amines ☐ Mercaptans ☐ Sulfur ☐ Organic Acid ☐ Amines/Ammonia

☒ Other: Mild

3.3) Consistency at 70 °F: ☒ Solid ☐ Dust/Powder ☐ Debris ☐ Sludge ☒ Liquid ☐ Gas/Aerosol ☐ Varies

3.4) What is the pH? ☒ ≤2 ☒ 2.1-4.9 ☐ 5-10 ☐ 10.1-12.4 ☐ ≥12.5 ☐ N/A

3.5) What is the flash point? ☐ <90 °F ☐ 90-139 °F ☐ 140-199 °F ☒ ≥200 °F ☐ N/A

3.6) Does this waste exhibit any of the following properties? (check all that apply)

- |  |  |  |   |                                      |
|--|--|--|---|--------------------------------------|
| <input type="checkbox"/> None                                    | <input checked="" type="checkbox"/> Free Liquids | <input type="checkbox"/> Metal Fines       | <input type="checkbox"/> Water Reactive   | <input type="checkbox"/> Biohazard   |
| <input type="checkbox"/> Shock Sensitive                         | <input type="checkbox"/> Oily Residue            | <input type="checkbox"/> Dioxins           | <input type="checkbox"/> Furans           | <input type="checkbox"/> Aluminum    |
| <input type="checkbox"/> Asbestos -non- friable                  | <input type="checkbox"/> Asbestos - friable      | <input type="checkbox"/> Other Radioactive | <input type="checkbox"/> Air Reactive     | <input type="checkbox"/> Isocyanates |
| <input type="checkbox"/> Biodegradable Sorbents                  | <input type="checkbox"/> Pyrophoric              | <input type="checkbox"/> Reactive Sulfide  | <input type="checkbox"/> Reactive Cyanide | <input type="checkbox"/> Explosives  |
| <input type="checkbox"/> Temperature Controlled Organic Peroxide | <input type="checkbox"/> NORM                    | <input type="checkbox"/> TENORM            |   |                                      |

## Section 4 - Composition and Generating Process

4.1) Provide a physical and chemical composition of the waste (e.g. soil, water, PPE, debris, etc.). List the percent ranges or the concentration of each component, either estimated or known.

Solutions of Organic Acids	0. to	100. %
Water	0. to	100. %

4.2) Provide a description of the generating process. *Remediation & IDW Sites: please provide a site history.*

NO ACETIC ACID NOR FORMIC ACID. ACID LIST AND CONCENTRATIONS MUST BE SENT UPON SCHEDULING. No listed wastes. Accumulation of organic acids by TSDF. Waste may include expired products or spent solutions (eg lactic acid, glycolic acid). <5000ppm Total RCRA/UHC Metals, <2000 ppm Cr, <500 ppm Cd, <150 ppm As, <260 ppm Hg total, <150 ppm Se, <150 ppm Sb, <10 mg/L Hg TCLP. No organic codes/UHCs. No free mercury. No MI codes. Combinations with other acid types must be profiled separately.

4.3) Are there any known previous handling or treatment issues involving this waste? ☐ Yes\* ☐ No

\*If yes, describe: \_\_\_\_\_

## Section 5 - Hazardous Wastes

As determined by 40 CFR, Part 261 and State Rules:

Please list applicable waste code(s):

5.1) Is this waste exempted from RCRA? ☐ Yes ☒ No

If Yes, please provide exemption: \_\_\_\_\_

5.2) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes ☐ No

a) For F006-F009, F012, does this come from a generator that conducts a cyanide plating process? ☐ Yes ☐ No

5.3) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☒ Yes ☐ No D002 D004 D005 D006 D007 D008 D009 D010 D011

5.4) Do any State Specific Hazardous Waste Codes apply? ☐ Yes ☐ No

**If you answered 'no' to 5.2, 5.3 and 5.4, please proceed to Section 6.**

5.5) EPA Source Code: G61 EPA Form Code: W103

5.6) Waste Code Determination Is Based On: ☐ Generator Knowledge ☐ Analysis ☐ MSDS

*Analysis and/or MSDS may be required for review and approval for hazardous and non-hazardous waste streams.*

5.7) Does this waste exceed Land Disposal Restriction levels? ☒ Yes ☐ No

a) Is this stream a wastewater (WW) or non-wastewater (NWW)?

☐ WW ☒ NWW

b) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49?

☐ Yes ☐ No

c) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.)

☐ Yes ☐ No

d) If the debris is larger than 3 ft x 3 ft x 3 ft, please provide the approximate dimensions and weight:

5.8) If this is a characteristic hazardous waste, does it contain Underlying Hazardous Constituents? ☐ Yes\* ☐ No

\*If Yes, please list: 200 Antimony, 201 Arsenic, 202 Barium, 203 Beryllium, 204 Cadmium, 205 Chromium, 209 Lead, 211 Mercury (all others), 212 Nickel, 213 Selenium, 214 Silver, 216 Thallium, 217 Vanadium, 219 Copper

*For a complete list of UHC constituents, please refer to 40 CFR 268.48*

## Section 6 - Non-Hazardous Wastes

Please list applicable waste code(s):

6.1) Do any State Specific Non-Hazardous Waste Codes apply? ☐ Yes ☐ No

6.2) Is this a Universal (UNIV) waste or a Recyclable Good (RG) ? ☐ UNIV ☐ RG ☐ N/A

6.3) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes ☐ No

a) If yes, is the total halogen content of the used oil waste stream greater than 1,000 ppm? ☐ Yes ☐ No

b) If yes, what is the source of the halogen content?

☐ This is a metalworking oil/fluid containing chlorinated paraffins.

☐ This is a used oil contaminated with chlorofluorocarbons from refrigeration units.

☐ This oil contains halogenated solvents. List specific solvents: \_\_\_\_\_

☐ Other, describe: \_\_\_\_\_

## Section 7 - TSCA Information

- 7.1) What is the concentration of PCBs in the waste? ☒ None ☐ 0-49 ppm ☐ 50-499 ppm ☐ 500+ ppm
- 7.2) Does the waste contain PCB contamination from a source with a concentration  $\geq 50$  ppm? ☐ Yes ☒ No ☐ Unknown
- If you answered "none" or '0-49 ppm' to 7.1 and "no" to 7.2, please proceed to Section 8.**
- 7.3) Has this waste been processed into a non-liquid form? ☐ Yes\* ☐ No
- \*If yes, what was the concentration of PCBs prior to processing? ☐ 0-499 ppm ☐ 500+ ppm
- 7.4) Is this non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No
- 7.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No
- 7.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ Yes ☐ No ☒ N/A

## Section 8 - Clean Air Act Information

- 8.1) Is this waste subject to regulation under 40 CFR, Part 264, Subpart CC (VOC > 500 ppmw)? ☐ Yes ☒ No
- 8.2) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD (VOHAP > 500 ppmw)? ☐ Yes ☒ No
- 8.3) Is the site, or waste, subject to any other NESHAP/MACT standard(s)? ☐ Yes\* ☒ No
- \*If Yes this document serves as notification that this waste contains chemicals \_\_\_\_\_, required to be managed in accordance with Part ☐ 61 ☐ 62 ☐ 63 Subpart \_\_\_\_\_ of NESHAP/MACT standards.
- 8.4) Does this waste stream contain Benzene? ☐ Yes ☒ No
- If you answered "no" to 8.4, please proceed to Section 9.**
- 8.5) Does the waste stream come from a facility subject to 40 CFR 61, Subpart FF (Benzene NESHAP)? ☐ Yes ☐ No
- If Yes, please provide the SIC/NAICS code: \_\_\_\_\_
- If you answered "no" to 8.5, please proceed to Section 9.**
- 8.6) Does your facility manage the waste subject to Benzene NESHAP in a manner other than shipping off-site? ☐ Yes ☐ No
- If Yes, please specify: \_\_\_\_\_
- 8.7) Is the generating source of this waste a facility with Total Annual Benzene (TAB)  $\geq 10$  Mg/year? ☐ Yes ☐ No
- 8.8) Does the waste contain >10% water? ☐ Yes ☐ No
- 8.9) What is the TAB quantity for your facility? \_\_\_\_\_ 0 Mg/year
- 8.10) What is the total Benzene concentration in your waste? \_\_\_\_\_ Percent or \_\_\_\_\_ ppmw.
- Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.**

## Section 9 - Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's personnel to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's personnel to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

**If I am an agent acting on behalf of the generator, I also certify that I have permission to sign any and all waste characterization paperwork on the generator's behalf and that I can produce such certification in writing upon request.**

Generator Signature \_\_\_\_\_ Printed Name \_\_\_\_\_

Company \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

## STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ - The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Profile Form, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

### **Definitions**

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Profile Form and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Profile Form (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

### **Control of Operations.**

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

### **Identification of Waste.**

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Profile Form containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Profile Form, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Profile Form.

### **Non-Conforming Wastes.**

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

### **Customer Warranty - Acceptable Wastes.**

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Profile Form. The information set forth in the Waste Profile Form or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

### **Customer Warranty - Title to Wastes.**

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

### **Customer Warranty - Compliance with Laws.**

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

### **Customer Warranty - Updating Information.**

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Profile Form, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

### **Customer Indemnity.**

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

### **Force Majeure.**

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

### **Governing Laws**

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

### **Bulk Disposal Charges**

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

## WASTE PROFILE FORM

For assistance in completing this document or for additional information on service offerings, please visit our website at [www.usecology.com](http://www.usecology.com), or call 800-592-5489.

**US Ecology will choose the appropriate facility and method of waste management for your waste from the technologies offered at each operation.**

If you wish to direct this waste to a specific facility(s) or treatment technology please indicate here:

**Waste Common Name: ORGANIC ALKALINE**

### Section 1 – Generator & Customer Information

Generator EPA ID # \_\_\_\_\_

NAICS/SIC Code \_\_\_\_\_

Generator \_\_\_\_\_

Facility Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**24-hour Emergency Response Number**

\_\_\_\_\_

Mailing Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Generator Contact \_\_\_\_\_

Title \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_

E-mail \_\_\_\_\_

Internal Use Only: EQ Division \_\_\_\_\_

EQ Customer No. \_\_\_\_\_

**Invoicing Company** \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Country \_\_\_\_\_

Invoicing Contact \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_

Technical Contact \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_

Cell Phone \_\_\_\_\_

E-mail \_\_\_\_\_

### Section 2 – Shipping & Packaging Information

2.1) Shipping Volume & Frequency:

a) Volume of Waste to be Shipped: \_\_\_\_\_ Varies

b) Frequency: ☐ One time ☐ Month ☒ Year ☐ Other: \_\_\_\_\_

2.2) DOT Information

a) Is this a U.S. Department of Transportation (USDOT) Hazardous Material? ☒ Yes ☐ No

b) If "Yes", indicate the proper shipping name per 49CFR 172.101 Hazardous Materials Table:

\_\_\_\_\_ Varies

### Section 3 – Special Properties

3.1) Color \_\_\_\_\_ Varies

3.2) Odor ☒ None ☐ Ammonia ☐ Amines ☐ Mercaptans ☐ Sulfur ☐ Organic Acid ☒ Amines/Ammonia

☒ Other: \_\_\_\_\_ Mild

3.3) Consistency at 70°F: ☐ Solid ☐ Dust/Powder ☐ Debris ☒ Sludge ☒ Liquid ☐ Gas/Aerosol ☐ Varies

3.4) What is the pH? ☐ ≤2 ☐ 2.1-4.9 ☒ 5 – 10 ☒ 10.1 – 12.4 ☒ ≥12.5 ☐ N/A

3.5) What is the flash point? ☐ <90°F ☐ 90-139°F ☐ 140-199°F ☐ >200°F ☒ N/A

3.6) Does this waste exhibit any of the following properties? (check all that apply)

- |  |  |  |   |                                      |
|--|--|--|---|--------------------------------------|
| <input type="checkbox"/> None                                    | <input checked="" type="checkbox"/> Free Liquids | <input type="checkbox"/> Metal Fines       | <input type="checkbox"/> Water Reactive   | <input type="checkbox"/> Biohazard   |
| <input type="checkbox"/> Shock Sensitive                         | <input type="checkbox"/> Oily Residue            | <input type="checkbox"/> Dioxins           | <input type="checkbox"/> Furans           | <input type="checkbox"/> Aluminum    |
| <input type="checkbox"/> Asbestos – non-friable                  | <input type="checkbox"/> Asbestos – friable      | <input type="checkbox"/> Other Radioactive | <input type="checkbox"/> Air Reactive     | <input type="checkbox"/> Isocyanates |
| <input type="checkbox"/> Biodegradable Sorbents                  | <input type="checkbox"/> Pyrophoric              | <input type="checkbox"/> Reactive Sulfide  | <input type="checkbox"/> Reactive Cyanide | <input type="checkbox"/> Explosives  |
| <input type="checkbox"/> Temperature Controlled Organic Peroxide | <input type="checkbox"/> NORM                    | <input type="checkbox"/> TENORM            |   |                                      |

#### Section 4 – Composition and Generating Process

4.1) Provide a physical and chemical composition of the waste (e.g. soil, water, PPE, debris, etc.). List the percent ranges of the material, either estimated or known.

Organic Alkaline Waste 100 to 100 % \_\_\_\_\_ to \_\_\_\_\_ %  
(typically surfactants/amines) \_\_\_\_\_ to \_\_\_\_\_ % \_\_\_\_\_ to \_\_\_\_\_ %

4.2) Provide a description of the generating process. *Remediation & IDW Sites: please provide a site history.*

Accumulation of organic alkaline materials through a TSDF. NO BULK w/o a sample for review. Amine/ammonia concentration must be <5% - must be technically approved prior to shipment. No flammable mat'l. No metal powders/fines - no Be/Al/Zn/Mg dusts/fines/pieces. <5000 ppm Total RCRA/UHC metals. <2000 mg/kg Cr, <500 mg/kg Cd, <150 mg/kg As, <260 mg/kg Hg total, <10 mg/L Hg TCLP, <150 mg/kg Se, <150 mg/kg Sb. No free mercury. Typical alkalines would include surfactants / amines.

4.3) Are there any known previous handling or treatment issues involving this waste? ☐ Yes\* ☒ No

\*If yes, describe: \_\_\_\_\_

#### Section 5 – Hazardous Wastes

As determined by 40 CFR, Part 261 and State Rules:

Please list applicable waste code(s):

5.1) Is this waste exempted from RCRA? ☐ Yes, please provide exemption: \_\_\_\_\_ ☒ No

5.2) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes: \_\_\_\_\_ ☒ No

a) For F006–F009, F012, does this come from a generator that conducts a cyanide plating process? ☐ Yes ☐ No

5.3) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☒ Yes: D002, D004-D011 ☐ No

5.4) Do any State Specific Hazardous Waste Codes apply? ☐ Yes: \_\_\_\_\_ ☒ No

If you answered 'no' to 5.2, 5.3 and 5.4, please proceed to Section 6.

5.5) EPA Source Code: G025 EPA Form Code: W219

5.6) Waste Code Determination Is Based On: ☒ Generator Knowledge ☐ Analysis ☐ MSDS  
Analysis and/or MSDS may be required for review and approval for hazardous and non-hazardous waste streams.

5.7) Does this waste exceed Land Disposal Restriction levels? ☒ Yes ☐ No

a) Is this stream a wastewater (WW) or non-wastewater (NWW)? ☐ WW ☒ NWW

b) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40CFR 268.49? ☐ Yes ☒ No

c) Does this waste contain greater than 50% debris, by volume? ☐ Yes ☒ No  
(Debris is greater than 2.5 inches in size.)

d) If the debris is larger than 3 ft x 3 ft x 3 ft, please provide the approximate dimensions and weight:

5.8) If this is a characteristic hazardous waste, does it contain Underlying Hazardous Constituents? ☐ Yes\* ☐ No

\*If Yes, please list: 200 Antimony, 201 Arsenic, 202 Barium, 203 Beryllium, 204 Cadmium, 205 Chromium, 209 Lead, 211 Mercury (all others), 212 Nickel, 213 Selenium, 214 Silver, 216 Thallium, 217 Vanadium, 219 Copper

For a complete list of UHC constituents, please refer to 40 CFR 268.48

## Section 6 – Non-Hazardous Wastes

Please list applicable waste code(s):

- 6.1) Do any State Specific Non-Hazardous Waste Codes apply? ☐ Yes ☒ No
- 6.2) Is this a Universal (UNIV) waste or a Recyclable Good (RG)? ☐ UNIV ☐ RG ☒ N/A
- 6.3) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes ☒ No
- a) If yes, is the total halogen content of the used oil waste stream greater than 1,000 ppm? ☐ Yes ☐ No
- b) If yes, what is the source of the halogen content?
- ☐ This is a metalworking oil/fluid containing chlorinated paraffins.
- ☐ This is used oil contaminated with chlorofluorocarbons from refrigeration units.
- ☐ This oil contains halogenated solvents. List specific solvents: \_\_\_\_\_
- ☐ Other, describe: \_\_\_\_\_

## Section 7 – TSCA Information

- 7.1) What is the concentration of PCBs in the waste? ☒ None ☐ 0-49 ppm ☐ 50-499 ppm ☐ 500+ ppm
- 7.2) Does the waste contain PCB contamination from a source with a concentration  $\geq 50$  ppm? ☐ Yes ☒ No ☐ Unknown
- If you answered "none" or "0-49 ppm" to 7.1 and "no" to 7.2, please proceed to Section 8.**
- 7.3) Has this waste been processed into a non-liquid form? ☐ Yes\* ☒ No
- \*If yes, what was the concentration of PCBs prior to processing? ☐ 0-499 ppm ☐ 500+ ppm
- 7.4) Is this non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No
- 7.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No
- 7.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ N/A ☐ Yes ☐ No

## Section 8 – Clean Air Act Information

- 8.1) Is this waste subject to regulation under 40 CFR, Part 264, Subpart CC (VOC > 500 ppmw)? ☐ Yes ☒ No
- 8.2) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD (VOHAP > 500 ppmw)? ☐ Yes ☒ No
- 8.3) Is the site, or waste, subject to any other NESHAP/MACT standard(s)? ☐ Yes\* ☒ No
- \*If Yes this document serves as notification that this waste contains chemicals \_\_\_\_\_, \_\_\_\_\_ required to be managed in accordance with Part ☐ 61 ☐ 62 ☐ 63 Subpart \_\_\_\_\_ of NESHAP/MACT standards.
- 8.4) Does this waste stream contain Benzene? ☐ Yes ☒ No
- If you answered "no" to 8.4, please proceed to Section 9.**
- 8.5) Does the waste stream come from a facility subject to 40 CFR 61, Subpart FF (Benzene NESHAP)?

☐ Yes, please provide the SIC/NAICS code: \_\_\_\_\_ ☐ No

**If you answered "no" to questions 8.5, please proceed to Section 9.**

- 8.6) Does your facility manage the waste subject to Benzene NESHAP in a manner other than shipping off-site?
- ☐ Yes, please specify: \_\_\_\_\_ ☐ No
- 8.7) Is the generating source of this waste a facility with Total Annual Benzene (TAB)  $\geq 10$  Mg/year? ☐ Yes ☐ No
- 8.8) Does the waste contain >10% water? ☐ Yes ☐ No
- 8.9) What is the TAB quantity for your facility? \_\_\_\_\_ Mg/Year
- 8.10) What is the total Benzene concentration in your waste? \_\_\_\_\_ Percent or \_\_\_\_\_ ppmw.
- Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.**

## Section 9 – Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's personnel to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's personnel to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

**If I am an agent acting on behalf of the generator, I also certify that I have permission to sign any and all waste characterization paperwork on the generator's behalf and that I can produce such certification in writing upon request.**

Generator Signature \_\_\_\_\_ Printed Name \_\_\_\_\_

Company \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_



## STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ – The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Profile Form, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

### **Definitions**

The following definitions shall apply for purposes of this Agreement:

**"Acceptable Waste"** shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

**"Delivered Wastes"** shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii) ) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

**"Non-Conforming Wastes"** shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Profile Form and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Profile Form (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

### **Control of Operations**

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

### **Identification of Waste**

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Profile Form containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Profile Form, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Profile Form.

### **Non-Conforming Wastes**

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

### **Customer Warranty - Acceptable Wastes**

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Profile Form. The information set forth in the Waste Profile Form or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

### **Customer Warranty - Title to Wastes**

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

### **Customer Warranty - Compliance with Laws**

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

### **Customer Warranty - Updating Information**

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Profile Form, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

### **Customer Indemnity**

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

### **Force Majeure**

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

### **Governing Laws**

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

### **Bulk Disposal Charges**

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

## **APPENDIX L**

### ***Proof of Publication of Notice***

***Pursuant to 62-730.292(6), F.A.C., proof of publication and broadcast required under this permit application will be provided to the Department no later than 45 days after receipt of the Department's intended action.***

## **APPENDIX M**

### ***Facility Preparedness & Prevention Plan and Contingency/Emergency Response Plan***

# **Facility Preparedness & Prevention Plan**

**And**

# **Contingency/Emergency Response Plan**

**US Ecology Tampa, Inc.  
7202 East 8<sup>th</sup> Avenue  
Tampa, FL 33619**

*Prepared for:*



**US Ecology Tampa, Inc.  
7202 East 8<sup>th</sup> Avenue  
Tampa, FL 33619**

*Prepared by:*



**PACSCON GeoEnvironmental, Inc.  
2019 Osprey Lane, Suite C  
Lutz, FL 33549**

**Revision: 01  
April 6, 2019**

## CONTENTS

<b>1.0</b>	<b>FACILITY PREPAREDNESS &amp; PREVENTION PLAN.....</b>	<b>1</b>
1.1	FACILITY OVERVIEW .....	1
1.2	FACILITY DESIGN & OPERATIONS .....	1
1.3	FACILITY PERSONNEL TRAINING & INSPECTIONS .....	3
1.4	REQUIRED EQUIPMENT .....	4
1.4.1	<i>Internal Communications.....</i>	<i>4</i>
1.4.2	<i>External Communications.....</i>	<i>4</i>
1.4.3	<i>Fire, Spill &amp; Decontamination Equipment .....</i>	<i>4</i>
1.4.4	<i>Water Volume &amp; Pressure .....</i>	<i>5</i>
1.5	TESTING & MAINTENANCE OF EQUIPMENT .....	5
1.6	ACCESS TO COMMUNICATIONS OR ALARM SYSTEMS.....	5
1.7	REQUIRED AISLE SPACE.....	5
1.8	ARRANGEMENTS WITH LOCAL AUTHORITIES.....	6
<b>2.0</b>	<b>CONTINGENCY/EMERGENCY RESPONSE PLAN.....</b>	<b>7</b>
2.1	GENERAL FACILITY INFORMATION & PLAN INTRODUCTION .....	7
2.1.1	<i>Plan Purpose.....</i>	<i>7</i>
2.1.2	<i>Plan Implementation.....</i>	<i>8</i>
2.1.3	<i>Plan Copies.....</i>	<i>8</i>
2.1.4	<i>Plan Amendment .....</i>	<i>8</i>
2.2	EMERGENCY RESPONSE COORDINATORS .....	8
2.3	COORDINATION AGREEMENTS.....	8
2.4	EMERGENCY EQUIPMENT & COMMUNICATIONS SYSTEMS .....	9
2.5	EVACUATION PLAN.....	10
2.6	EMERGENCY PROCEDURES & FACILITY PERSONNEL ACTIONS .....	10
2.6.1	<i>Internal Communications.....</i>	<i>10</i>
2.6.2	<i>External Communications.....</i>	<i>10</i>
2.6.3	<i>Government Agency Notification .....</i>	<i>11</i>
2.6.4	<i>Identification of Hazardous Materials Locations .....</i>	<i>12</i>
2.6.5	<i>Waste Types Managed.....</i>	<i>13</i>
2.6.6	<i>Hazardous Materials Emergency Response References .....</i>	<i>14</i>
2.7	HAZARD ASSESSMENT .....	14
2.7.1	<i>Fire or Explosion .....</i>	<i>14</i>
2.7.2	<i>Fire Fighting Procedures.....</i>	<i>14</i>
2.7.3	<i>Unplanned Material Release.....</i>	<i>15</i>
2.8	PERSONAL PROTECTIVE EQUIPMENT.....	15
2.8.1	<i>Level A Protection.....</i>	<i>15</i>
2.8.2	<i>Level B Protection.....</i>	<i>16</i>
2.8.3	<i>Level C Protection.....</i>	<i>16</i>
2.8.4	<i>Level D Protection .....</i>	<i>16</i>
2.9	CONTAINMENT & CONTROL MEASURES.....	16
2.9.1	<i>Entrance Procedures.....</i>	<i>17</i>
2.9.2	<i>Fire or Explosion Response Procedures.....</i>	<i>17</i>
2.9.3	<i>Spill or Release Response Procedures.....</i>	<i>18</i>
2.9.4	<i>Care of the Injured.....</i>	<i>19</i>
2.10	POST-EMERGENCY OPERATIONS .....	19
2.10.1	<i>Decontamination Procedures.....</i>	<i>19</i>
2.10.2	<i>Reentry Monitoring.....</i>	<i>20</i>
2.10.3	<i>Emergency Waste Movement Coordination.....</i>	<i>20</i>
2.10.4	<i>Post-Emergency Assurances .....</i>	<i>21</i>
2.10.5	<i>Post-Emergency Documentation.....</i>	<i>21</i>

## **FIGURES**

Figure 1	Facility Layout (Existing & Proposed)
Figure 2	Waste Management Area Locations
Figure 3	Drainage Areas & Stormwater Controls
Figure 4	Container Storage Building & Covered Processing Area Layout
Figure 5	Waste Processing Building Layout
Figure 6	Container Storage Building Safety & Fire Control Systems
Figure 7	Emergency Preparedness Plan
Figure 8	Routes to Hospital

## **APPENDICES**

Appendix A	Emergency Contact List
Appendix B	EPA Region 4 Hurricane Preparedness Guidelines
Appendix C	Supplemental Emergency & Safety Equipment
Appendix D	Standard Operating Procedures



## **1.0 FACILITY PREPAREDNESS & PREVENTION PLAN**

This section discusses the facility preparedness and prevention plan for the USE Ecology Tampa, Inc. (USE) facility located in Tampa, FL. It should be noted that in addition to this Facility Preparedness & Prevention and Contingency/Emergency Response Plan, USE maintains and operates under a comprehensive Emergency Action Plan (EAP) that is available for review at the facility office during normal business hours. An emergency contact and response agency list is provided in Appendix A. Additionally, as requested by the Florida Department of Environmental Protection (FDEP or Department), the hurricane preparedness and recovery information available on the United States Environmental Protection Agency (EPA) website is contained in Appendix B.

### **1.1 Facility Overview**

USE, formerly known as EQ Florida Inc., is a division of EQ Holding Company, a Michigan Corporation, and a wholly-owned subsidiary of US Ecology. USE operates a permitted solid/non-hazardous waste processing facility in combination with a hazardous waste treatment and storage facility the pertinent facility and operating permit details of which are summarized below:

- Facility Name: US Ecology Tampa, Inc.
- Facility Address: 7202 East 8<sup>th</sup> Avenue, Tampa, FL 33619
- Facility County: Hillsborough
- Facility Telephone No.: (813) 623-5302
- Facility EPA Identification No.: FLD 981 932 494
- HSWA Permit No.: 34875-013-HO
- Solid Waste Permit No.: 34757-SO-014

The USE facility comprises 4.46 acres, more or less, with processing storage, transportation and administrative operations conducted on two separate but adjacent/contiguous parcels located north and south of East 9<sup>th</sup> Avenue. The facility is located outside the 100-year floodplain and the land was previously undeveloped prior to its current use. It is located in a heavy industrial zoned area known as Orient Park within the City of Tampa and the surrounding land uses are heavy industrial in nature.

The USE facility is a permitted non-hazardous and hazardous waste storage and treatment facility and a registered hazardous waste transporter with a State-registered (onsite) transfer facility. No onsite disposal occurs at the USE facility. USE manages non-RCRA regulated waste, household hazardous waste, used oil and filters, mercury containing lamps and devices, TSCA-exempt and limited quantity exempt PCB and asbestos wastes, recyclable materials, and other similar substances, materials, and wastes. The primary waste management operations are: staging, storage, consolidation, solidification and transfer of non-hazardous and hazardous wastes, and treatment of hazardous wastes (D-002, D-004 through D-011, and K-062). The main office and mailing address is listed as 7202 East 8<sup>th</sup> Avenue (south side of East 9<sup>th</sup> Avenue); however, the majority of inbound wastes are delivered to the 2002 North Orient Road property (north side of East 9<sup>th</sup> Avenue).

### **1.2 Facility Design & Operations**

The USE facility was specially designed and built for non-hazardous and hazardous waste storage, transfer, and treatment and consists of a loading/unloading area, an office building, a 5,866 square-foot Container Storage Building (CSB) with an attached 1,786 square-foot Improved Secondary Containment Area (ISCA) located on the N. Orient Road property. The 8,050 square-foot Waste Processing Building (WPB) is located on the E. 8<sup>th</sup> Avenue property. The facility layout is indicated on Figure 1.

The Inbound/Outbound (I/O) Staging Area is co-located with the 10-day Transfer Area on the E. 8<sup>th</sup> Avenue property and used for incoming loads of hazardous waste awaiting receipt and unloading, and for full loads awaiting transportation to an offsite disposal and/or recycling facility.

The office building located on the E. 8<sup>th</sup> Avenue property does not conduct commercial hazardous waste storage, transfer, or treatment. The facility's quality control laboratory is located in the office building. The lab generates small quantities (5 gallons or less) of satellite accumulation wastes, which are taken to the CSB for storage prior to shipment to an offsite permitted disposal facility.

The loading/unloading area is used for the loading and unloading of hazardous waste and are shown on Figure 2. Transport vehicles delivering shipments of hazardous waste back into any one of seven available loading/unloading docks. The docks have roll-up doors, which allow unloading directly from transport vehicle to the CSB. Similarly, outbound waste is loaded directly from the CSB to the transport vehicles. The loading/unloading area is an impervious contained surface constructed of concrete and asphalt. An epoxy coating covers the 10,000-gallon ISCA in front of Bay 2. There is a 60-foot roof overhang from the CSB over the loading/unloading area. All stormwater run-off from the loading/unloading area is contained and inspected prior to release to the stormwater management system. Surface water flow and the stormwater management system are shown on Figure 3.

The CSB was designed and built specifically for hazardous waste storage, transfer, and treatment, and contains a floor that is constructed of five inches of 4,000 psi concrete placed monolithically and coated with a chemical resistant sealant and two layers of chemical resistant polyurethane coating. The CSB consists of three separate bays. An eight-inch wide concrete block wall separates each bay. The walls extend from the floor to the roof and are designed with a minimum fire resistance of four hours. Storage Bays 1 and 3 are at opposite ends of the CSB and have identical dimensions of approximately 48- by 50-feet. Storage Bay 2 is in the center of the CSB and is approximately half the size of Bays 1 and 3. Specifically, the dimensions of Bay 2 are approximately 22- by 50-feet.

The CSB has five separate containment sumps with a capacity of 1,001 gallons each, which provide a combined total of 5,005 gallons of containment capacity. The floors of each bay are sloped 1/8-inch per foot to each containment sump. The 1/8 inch per foot slope of the floors provides additional containment beyond the 1,001 gallons of each containment sump. Conservatively, the additional containment available from the floor slope has not been included in containment calculations. Each containment sump is available to contain spills or leaks of different hazard class materials. This eliminates the potential for incompatible materials to spill or leak into the same containment sump. The sloping of the floors directs potential spills or leaks to the appropriate containment sump. Two sumps each are in Bays 1 and 3 and one sump is in Bay 2. The layout of the CSB and covered processing area is shown on Figure 4.

The WPB houses the solid/non-hazardous waste solidification tank, an industrial shredder, an on-ground hazardous waste treatment tank, and a reactivities magazine and includes a hazardous waste container storage area with a permitted capacity of 4,400 gallons (proposed to be increased to 4,950 gallons). The layout of the WPB is shown on Figure 5. Characteristically hazardous waste codes D-002 (corrosivity), D-004 (arsenic), D-005 (barium), D-006 (cadmium), D-007 (chromium), D-008 (lead), D-009 (mercury), D-010 (selenium), and D-011 (silver) and listed waste code K-062 ("spent pickle liquor" from steel finishing operations) are treated in the on-ground hazardous waste treatment tank located in the WPB. Non-hazardous wastes (sludges or liquid wastes) are mixed with a solidification agent (sawdust or other approved agent) to absorb residual free liquids in the non-hazardous waste solidification tank. The industrial shredder is used to tear up waste typically consisting of containers of 5 gallons or less that contain residual solids, liquids, or sludges into smaller pieces thereby reducing transportation liability and waste volume. The reactivities magazine, which is located in the west central portion of the WPB, is used for the temporary storage and pass-through of road flares, DOT 1.4 material, marine aerial and signal flares, small

arms munitions, black powder, residential fireworks, and other permitted explosives. No forbidden explosives will be transported to the facility and/or stored in the magazine, and no treatment or processing of explosive materials is completed onsite.

### **1.3 Facility Personnel Training & Inspections**

All USE employees have reviewed and are familiar with the Contingency Plan. "Hands on" operations personnel involved in hazardous waste handling, transportation, emergency response, storage, or treatment have successfully completed a program of classroom instruction or on-the-job training that teaches Contingency Plan implementation. The course outline for the USE Contingency Plan training is included in the Training Program (described in Section 6.0 of Volume 1 of 3). The Contingency Plan training includes an on-site emergency response drill and post-drill evaluation.

As described in Section 5.0 of Volume 1 of 3, the USE facility is regularly inspected for malfunctions and deterioration, operator errors, and discharges, which may cause (or lead to) release of hazardous waste constituents to the environment or a threat to human health. These inspections are intended to identify problems in time to correct them before a release of hazardous waste or constituents occur. A facility inspection log is maintained to document the results of these inspections.

All monitoring equipment, safety and emergency equipment, security devices, and operating and structural equipment, including the on-ground hazardous waste treatment tank, that are important to preventing, detecting, or responding to human health or environmental hazards will be inspected daily (each operating day). The inspections will be performed by trained USE operations personnel. All inspections will be reviewed and approved by a senior USE employee (manager, supervisor, or chemist).

The inspector will look for the items listed on the USE Facility Inspection Log (see Section 5.0 of Volume 1 of 3). All areas subject to spills, such as the loading/unloading, container storage areas, and the hazardous waste treatment tank are inspected daily (each operating day). All containers are inspected for container condition, closure, labeling, and aisle space. Housekeeping and proper storage are also inspected daily. The vehicle loading and unloading areas and transfer facility vehicles and wastes are inspected daily to identify problems. External areas such as the area for storage of empty containers and the stormwater systems (trenches, filter, and retention pond) are inspected daily to identify problems. Safety and emergency equipment is inspected daily for condition, availability, and operations capability. The safety and emergency equipment inspected includes fire control equipment, communication devices, safety showers and eye washes, spill kits, exits, safety supply lockers, fire suppression and alarm systems, and lower explosive limit (LEL) meter and sensors. The contents of the safety supply lockers will be inspected and inventoried monthly. The date of inspection and inventory will also be noted on the Facility Inspection Log. The contents of the safety supply lockers are to be used only in the event of an emergency. The date of re-inspection and re-inventory will be noted on the Facility Inspection Log. The waste inventory for the CSB, WPB, ISCA, I/O Staging Area, 10-Day Transfer Area, and Bulk Container Storage Areas (BSCAs) are noted daily on the inspection log.

Every unsatisfactory condition noted during the inspection will be immediately corrected if possible. Items not immediately corrected will be noted on the inspection log. Unsatisfactory conditions noted on the inspection log will be corrected within fourteen (14) days. USE will submit a written schedule to correct the deficiency to the FDEP should any deficiency not be corrected within fourteen (14) days. Where a hazard is imminent or has already occurred, remedial action will be taken immediately. The Contingency/Emergency Response Plan (Section 2.0 of this document) will be implemented if a fire, explosion, or unplanned release of hazardous waste or hazardous waste constituents occurs to the air, soil, groundwater, or surface water at the facility that could threaten human health or the environment. All remedial actions completed will be noted on the inspection log.

Further, as discussed in Section 3.4 of Volume 1 of 3 (Ignitable, Reactive, or Incompatible Wastes), USE has taken all precautions to prevent reactions that may:

1. Generate extreme heat, pressure, fire, explosion, or violent reaction;
2. Produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantity to threaten human health or the environment;
3. Produce uncontrolled flammable fumes or gases in sufficient quantities to threaten human health or the environment;
4. Damage the structural integrity of the device or facility; and,
5. Through other similar means which threaten human health or the environment.

## **1.4 Required Equipment**

### ***1.4.1 Internal Communications***

The facility is equipped with an internal communications and alarm system capable of providing immediate emergency instruction (or signal) to facility personnel. Internal communications and alarms consist of the following:

1. Emergency air horns;
2. Pull alarms;
3. Two-way radios;
4. Cellular phones; and,
3. Landline Telephones.

### ***1.4.2 External Communications***

The facility is equipped with landline telephones, cellular phones, and pull alarms capable of summoning emergency assistance from local police departments, fire departments, or other emergency response departments. Local emergency assistance is readily available by dialing 911. The facility fire alarms are direct to the Tampa Fire Department.

### ***1.4.3 Fire, Spill & Decontamination Equipment***

The facility is equipped with portable, multipurpose (ABC) fire extinguishers; Halon and Metal-X fire extinguishers are also available. The CSB is equipped with sprinkler systems and smoke and flame detectors. The facility has a continuous automatic fire monitoring system. Fire alarms automatically notify the Tampa Fire Department of emergency fire or smoke conditions.

The flammable materials storage bay (Bay 2) is equipped with an automatic high expansion foam fire suppression system. Bay 2 is also equipped with a LEL monitoring system. The LEL meters are mounted so that vapors less dense than air and vapors more dense than air are both monitored. Emergency exhaust fan ventilation is automatically activated at 10% of LEL. The foam system is automatically activated at 10% of LEL. An alarm to the Tampa Fire Department is also activated at the 10% LEL. Fire control equipment within the CSB is identified on the building as-built record drawing provided as Figure 6.

The industrial shredder located in the WPB is intrinsically safe and has a self-contained CO<sub>2</sub> fire suppression system. The fire suppression system utilizes automatic detection, manual activation, notification signals, and relay contacts for equipment shutdown controls. The system automatically notifies the Tampa Fire Department of emergency fire conditions.

Spill control, fire, explosion and other supplemental safety equipment are located throughout the facility. The equipment is readily available to facility personnel. The supplemental emergency equipment is discussed in Section 2.4 of this document and a listing of the equipment is provided in Appendix C.

Decontamination equipment is readily available at the facility; however, the need for decontamination is minimal. Most personal protective equipment (PPE) and sampling equipment is disposable, thereby eliminating the need for decontamination. Water and decontamination solutions such as trisodiumphosphate (TSP), bleach, detergent, lime, and citric acid are available for decontamination. Mercury spill cleanup materials (e.g., HgX, Mercsorb, or equivalent) are also available.

#### ***1.4.4 Water Volume & Pressure***

The facility has water available at adequate volume and pressure to supply firefighting equipment. The water volume is rated at 463 gallons per minute (gpm) volume and 32.4 pounds per square inch (psi) pressure at the base of a 6-inch diameter riser. A jockey pump connected to the city water supply augments the suppression system.

### **1.5 Testing & Maintenance of Equipment**

All equipment at the USE facility will be maintained and tested in accordance with the manufacturer's recommendations. USE has a maintenance agreement with a fire control firm to maintain the fire control equipment. The equipment serviced under this agreement includes the foam suppression system, LEL detectors, smoke detectors, flame detectors, fire control panels, sprinkler system, piping, and fire alarm systems. USE will routinely inspect this equipment as outlined in the inspection plan. The fire control firm will inspect the equipment (at a minimum) annually. This will serve to keep the equipment operational for use in times of emergency.

### **1.6 Access to Communications or Alarm Systems**

Communication and alarm systems present in the WPB are detailed on Figure 5 and safety and fire control systems present in the CSB are indicated on the as-built record drawing for the building provided as Figure 6. Access to communications and alarm systems are readily available to all employees regardless of their location. It is USE company policy that at least two employees will be present before entering any active operating portion of the facility. If there is ever just one employee entering any active operating portion of the facility, the employee will have immediate access, at the scene of operation, to a communications device (such as telephone) capable of summoning external emergency assistance.

### **1.7 Required Aisle Space**

The facility has been designed for the safe unobstructed movement of personnel, fire protection equipment, spill control equipment, and/or decontamination equipment to any operations area during an emergency. There will be a minimum of two feet of aisle space between double rows of containers (or between rows of pallets of containers). The actual aisle space between rows of containers and pallets is usually three feet. Containers (or pallets of containers) may be stored over the containment sumps in the CSB. The containment sumps will be readily visible and aisle space will be maintained with containers (or pallets of containers) stored over the sumps. The containers (or pallets of containers) can easily be moved to remove any material from the sumps. No containers (or pallets of containers) will be stored within two feet of any safety equipment located on any wall. Adequate aisle space will be maintained to access all safety, spill

control, and decontamination equipment stored along any wall. Hazardous waste inbound, outbound, and transfer facility shipments are loaded on transportation vehicles in accordance with all applicable DOT and RCRA regulations. Materials such as containers or pallets of containers can be easily unloaded and transferred to the CSB or another transport vehicle should any emergency require unloading of waste containers from a transport vehicle.

## **1.8 Arrangements with Local Authorities**

This plan has been submitted to all required agencies listed in Section 2.3 in both hard copy and electronic format, as required. All agencies have been invited to tour the facility to become familiar with its layout including entrances and roads inside the facility, the properties of the non-hazardous and hazardous waste managed at the facility and associated hazards, the places where facility personnel would normally be working during an emergency, and the primary and secondary facility evacuation routes detailed on Figure 7 attached hereto.

No agency has notified USE that they would not be able to respond to any potential emergency. Most of the agencies listed have utilized or contracted USE for emergency response operations. This has provided a degree of familiarity between USE and responding agency personnel.

## **2.0 CONTINGENCY/EMERGENCY RESPONSE PLAN**

This Contingency/Emergency Response Plan contains detailed information on how the USE facility will respond to and report a hazardous waste incident. The USE emergency coordinators are provided on the emergency contact list provided in Appendix A so they are readily available. Information regarding handling a response, interagency agreements, government agency notification, post-emergency operations and reporting is provided in the below sections.

### **2.1 General Facility Information & Plan Introduction**

Detailed information regarding the facility and its design and operations are provided above in Sections 1.1 and 1.2. Overall, the facility is designed to minimize the potential for any release of non-hazardous or hazardous wastes or constituents. Vehicles are able to load and unload directly to and from the CSB. Virtually any potential release would be contained within the CSB and its sumps or within the transport vehicle. The covered processing area is sloped and diked for containment (see Figure 4). A 10,000-gallon epoxy lined ISCA is located in front of CSB Bay 2. Waste materials are segregated by hazard class in the CSB to ensure that no incompatible wastes are stored together. All flammable materials are stored in a separate bay (Bay 2) designed solely for that purpose which contains the fire monitoring and safety equipment discussed in Section 1.2. In addition, the CSB is fully sprinkled and contains both smoke and flame detectors that are continuously monitored. Fire extinguishers and fire hoses are located throughout the facility. Safety equipment, proximity suits, self-contained breathing apparatus (SCBA), and material handling equipment are located at the facility. A listing of supplemental emergency and safety equipment is provided in Appendix C.

Hazardous materials potentially onsite may include: acids, alkalis, poisons, flammables, combustibles, oxidizers, reactives and other regulated solids or liquids that do not fall into these classifications. Most will be present in small quantities or in diluted concentrations when compared to the original raw material. As discussed in Section 1.2, a reactives magazine is located in the WPB that is used for the temporary storage and pass-through of permitted explosives and no treatment or processing of explosive materials is completed onsite. No regulated radioactive and/or pathological wastes are managed at the USE facility. A daily inventory of all materials stored at the facility is readily available.

In the event of a power outage, emergency backup lighting is provided in the facility, and the security system will activate its backup battery.

In order to prevent releases to the atmosphere, containers will remain closed at all times except when it is necessary to add or remove waste from the container.

All operations personnel at this site are trained in emergency response, hazardous waste operations, firefighting procedures, emergency first aid, and CPR (see Section 1.3).

#### **2.1.1 Plan Purpose**

The purpose of this plan is to provide USE employees and responding agencies with an organized procedure for responding to unusual occurrences or emergencies involving hazardous chemicals and/or wastes when such releases could cause potential harm to human health or the environment. This plan is designed to present as simply as possible the necessary steps required in an emergency.

Emergencies covered under this procedure are fires, explosions, floods, hurricanes or an unplanned sudden and non-sudden release into the environment of hazardous waste including liquids, vapors and particulates which could cause harm to human health or the environment.



### **2.1.2 Plan Implementation**

This Contingency Plan will be implemented immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents to air, soil, surface water, or groundwater at the facility, which could threaten human health or the environment.

### **2.1.3 Plan Copies**

Copies of this plan are maintained at both the administration building located on the E. 8<sup>th</sup> Avenue property and in the office building located on the N. Orient Road property. Key personnel such as the USE emergency coordinators have direct electronic access of this plan.

Copies of the plan have previously been submitted to the Tampa Police Department, Tampa Fire Department, Local Emergency Planning Committee (LEPC), FDEP, Tampa General Hospital and Brandon General Hospital. The plan will be resubmitted to these agencies and entities either electronically or via hardcopy following approval of the pending permit renewal application.

### **2.1.4 Plan Amendment**

The plan will be reviewed at least annually and amended immediately, if necessary, whenever:

1. The facility permit is revised or renewed;
2. The plan fails in an emergency;
3. The facility changes design, construction, operation, maintenance, or other circumstances in a way that materially increases the potential for fires, explosions, or releases of hazardous waste or hazardous waste constituents, or changes the response necessary in an emergency;
4. The USE emergency coordinators list changes; or,
5. The emergency equipment list changes.

## **2.2 Emergency Response Coordinators**

At all times, there will be at least one employee either at the facility or on call that will be responsible for coordinating all necessary emergency response operations. The coordinator and alternates are thoroughly familiar with all aspects of this plan, all facility operations and the location and characteristic of wastes managed, the location of facility records, and the facility layout. The designated USE emergency coordinators are provided on the emergency contact list provided in Appendix A.

All USE emergency coordinators have authority to commit corporate funds and resources during an emergency incident involving a fire, explosion, or release of hazardous waste(s) and or constituents to the air, soil, surface water, or ground water at the facility which could threaten human health or the environment.

## **2.3 Coordination Agreements**

The City of Tampa Fire Department, Tampa Police Department, FDEP, hospitals (Tampa General and Brandon General Hospitals) and an outside spill response contractor have been notified as to the operation of this facility. As discussed above in Section 1.8, a copy of this plan has been sent to these organizations and they have all been invited to tour the facility to become familiar with its layout and operations. An emergency contact and response agency and organization list and is provided in Appendix A.

## 2.4 Emergency Equipment & Communications Systems

This chapter describes the emergency equipment and alarm systems within the CSB and the WPB at the USE facility. Supplemental emergency and safety equipment located at the USE facility is listed in Appendix C.

1. **Fire extinguishers** are located throughout and are identified by signs and red markings. ABC extinguishers are located in Bays 1 and 3 of the CSB. Halon and metal-x extinguishers are located in the flammable storage area (Bay 2) in the CSB. ABC fire extinguishers are also located throughout the WPB and CSB and are prominently identified by signs and red markings.
2. **Chemical Spill Treatment Kit** containing six 2-pound containers of Spill-X-S (100% carbon) used for solvent spills is located in Bay 2 of the CSB.
3. **Oil-Dri** and **Vermiculite** are used for solvent and oil spills. This material is located on the ramp leading to Bay 3 of the CSB in bags identified with the words Oil-Dri or Vermiculite.
4. **Soda Ash** is used to neutralize acids. This material is located in Bay 1 of the CSB in bags identified by the words Soda Ash.
5. **Caustic Spill Treatment Kit** containing six 2-pound containers of Spill-X-C (75% Citric Acid) used for caustic spills is located in Bay 3 of the CSB.
6. **Spill control/sorbent booms/pads** used to contain any spill. Spill control booms are available in various lengths and are located in Bay 3 of the CSB. The entire WPB is secondarily contained and spill control supplies are available onsite for incidents within this structure, as necessary.
7. **Protective Clothing** is located in Bays 1 and 3 of the CSB. Protective Suits are available in Levels B through D. Appropriate PPE, including chemical resistant suits, safety glasses, splash guards, and hardhats, for the activities completed in the WPB and CSB are available onsite.
8. **Full-face respirators** located in Bays 1 and 3 of the CSB and **SCBAs** located in Bays 1 and 3 of the CSB and the main facility office are available for respiratory protection.
9. **Gloves, boots, face shields, goggles** and **hard hats** may be used as protective equipment and are located in Bays 1 and 3 of the CSB. This protective equipment is also available in the main facility office building for waste management activities conducted in the WPB.
10. **Acid Spill Treatment Kit** containing six 2-pound containers of Spill-X-A (78% Magnesium Oxide) used for acid spills is located in Bay 1 of the CSB.
11. **Air powered pumps with hose** for removal of liquids or water identified by lack of electrical connection and capable of fitting inside of a drum bung are located in Bays 1 and 3 of the CSB.
12. **Manual pump** for removal of any flammable liquids.
13. **Shovels, brooms, buckets, mops, tools, bung wrenches**, etc. are located in Bays 1, 2 and 3 of the CSB as well as in the WPB.
14. Empty **DOT-approved containers** for recontainerizing damaged or leaking containers are located in Bays 1 and 3 of the CSB.
15. Empty **85 and 110-gallon overpack drums** for recontainerizing damaged or leaking containers are located on the ramp leading to Bay 3 of the CSB.
16. An **emergency eye wash/shower** is located in both Bays 1 and 3 of the CSB. An emergency eye wash/shower is also located on the north wall in the center of the WPB.
17. **Two infrared flame detectors** are located in Bay 2 of the CSB and **photo beam smoke detectors** are located in all three bays in the CSB. **LEL** monitors are also located in Bay 2 of the CSB. The industrial shredder located in the WPB has a self-contained CO<sub>2</sub> fire suppression system. The fire suppression system utilizes automatic detection, manual activation, notification signals, and relay contacts for equipment shutdown controls.
18. An **onsite laboratory and HAZCAT identification kit** are available as necessary to characterize a sample of a potential hazardous material. The facility waste sampling and HAZCAT standard operating procedures (SOPs) are included in Appendix D.

The emergency communication system equipment consists of:

1. **Air horns** are located throughout the CSB and in the WPB. In case of a spill, explosion, or other emergency, these can be used to alert all employees that evacuation is necessary.
2. **Two-way radios** are used for communications throughout the facility.
3. Twenty-four hour **monitored alarms** are located throughout the facility.
4. **Cellular phones** are available at the facility.
5. **Landline telephones** are available at the facility. The telephone in the CSB is located in Bay 1 near the northwest exit.

## 2.5 Evacuation Plan

Emergency situation and evacuation notification procedures are discussed in this section.

1. Notification to evacuate the USE facility in an emergency would be handled by one of several methods. These are:
  - a. Emergency air horns located throughout the facility are sounded when evacuation is necessary.
  - b. Pull alarms are located throughout the facility.
  - c. Two-way radios are used for communications throughout the facility.
  - d. Landline telephones are available throughout the facility. The telephone in the CSB is located in Bay 1 near the northwest exit.
  - e. Cellular phones are also available at the facility.
2. In the event of an emergency situation (spill, fire, explosion), the first employee to notice it is to immediately sound the emergency air horns and/or alarms located throughout the facility.
3. All personnel are to evacuate the facility. The evacuation routes are shown on Figure 7. The primary evacuation route should be used unless blocked or impassable. In that case, the secondary evacuation route should be employed.

## 2.6 Emergency Procedures & Facility Personnel Actions

The purpose of this section is to establish the organizational structure which will be in force during a response to a chemical emergency and what procedures will be utilized to notify corporate officials, outside response teams, local government authorities, and State and Federal Regulatory Agencies.

### 2.6.1 Internal Communications

In the event of an emergency situation involving hazardous chemicals or wastes, the USE emergency coordinator or designate alternate will be responsible for coordinating the necessary response and/or cleanup. Refer to Appendix A for a listing of designated emergency contacts and response agencies and organizations.

USE management is to be notified immediately upon discovery of an emergency situation involving hazardous chemicals or wastes. Management will notify, via telephone, two-way radio, or mobile telephone, the required USE personnel for response to the scene. USE emergency response vehicles are equipped with necessary cleanup/safety materials and first aid supplies. Trailers, sheds, and lockers onsite also contain safety equipment and supplies.

### 2.6.2 External Communications

In any emergency situation, the following should be contacted:

1. Tampa Fire Department (**911**). Indicate the extent and type of emergency which exists (e.g., fire, spill, etc.).
2. In the event of emergencies involving chemical spills, leaks, or explosions, which may require additional assistance, at the direction of the USE emergency coordinator a spill response contractor can be notified.

### **2.6.3 Government Agency Notification**

In the event of an emergency, USE will comply with all requirements contained in Chapter 62-150, Florida Administrative Code (F.A.C.), titled *Hazardous Substance Release Notification*. In the event of an emergency where environmental contamination is imminent, in addition to notifying the Tampa Fire Department (**911 emergencies**), the following governmental agencies will be notified by the USE emergency coordinator. Initial notification to the National Response Center (NRC) will be completed within 15 minutes if a release of a hazardous substance to the environment occurs in an amount that equals or exceeds its reportable quantity (RQ). A listing of RQs for roughly 800 Superfund hazardous substances maintained by the EPA can be accessed by [clicking here](#)<sup>1</sup>. Further, the State will be notified within 24 hours as specified in Chapter 62-150, F.A.C.

- |  |  |
|--|--|
| 1. State of Florida Warning Point<br>800-320-0519  | 2. National Response Center (NRC)<br>800-424-8802  |
| 3. FDEP Southwest District Office<br>Temple Terrace, Florida<br>813-470-5700 (normal business hours) | 4. Environmental Protection Commission<br>of Hillsborough County<br>813-627-2600 (normal business hours) |

The following information will be communicated to the governmental agencies contacted:

1. Name and telephone number of the reporter;
2. Name and address of the facility;
3. Time of the incident;
4. Nature of incident (e.g., fire, explosion, or release);
5. Name of the material released;
6. Quantity of the material released;
7. Additional information such as liquid, vapor, or solid;
8. Type of incident (e.g., release from drum, tank, truck, or warehouse);
9. Extent of injury or injuries, if any;
10. Possible hazards to human health or the environment outside the facility;
11. Weather conditions (e.g., wind direction, rain, etc.); and,
12. Potential for release or spill of material to reach surface waters.

Within 15 days of any incident the facility manager will notify the FDEP, electronically, that the Contingency Plan has been implemented. All of the aforementioned items will be addressed as well as the quantity and disposition of all recovered materials resulting from the incident. The FDEP Southwest District Office notice will be provided to the Compliance Assurance Program electronically at: [SWD\\_Waste@dep.state.fl.us](mailto:SWD_Waste@dep.state.fl.us).

---

<sup>1</sup> [https://www.ecfr.gov/cgi-bin/text-idx?SID=5eb9206a60662143cb26a1b0a7263e74&mc=true&node=se40.28.302\\_14&rgn=div8](https://www.ecfr.gov/cgi-bin/text-idx?SID=5eb9206a60662143cb26a1b0a7263e74&mc=true&node=se40.28.302_14&rgn=div8)

#### ***2.6.4 Identification of Hazardous Materials Locations***

The CSB is located on the N. Orient Road property. The CSB doors (west/front side) are placarded with the hazard class of the material stored in that particular bay. The bay contents are summarized below.

##### **CSB Bay 1 – North Bay:**

1. Acids
2. Toxic Organics and Metals
3. Non-flammable solvents and halogens
4. Asbestos

##### **CSB Bay 2 – Center Bay:**

1. Flammable liquids and solids
2. Reactive cyanides, sulfides, and metals

##### **CSB Bay 3 – South Bay:**

1. Poisons
2. Oxidizers
3. Caustics
4. Non-Regulated Materials

The satellite accumulation area is located in the main facility office building on the E. 8<sup>th</sup> Avenue property.

##### **Quality Control Laboratory:**

1. Satellite accumulation (5 gallon or less) of flammable, corrosive, chemical rags, and battery wastes.

The WPB is located on the E. 8<sup>th</sup> Avenue property.

##### **WPB:**

1. Non-Hazardous and Non-Regulated solid waste
2. Characteristically hazardous waste (D-002 and D-004 through D-011) & listed hazardous waste (K-062)
3. Explosives (pass-through; no treatment or processing onsite)

The BSCAs and solid waste operations area are located on the E. 8<sup>th</sup> Avenue property.

##### **BSCAs & Solid Waste Operations Area:**

1. Non-Hazardous and Non-Regulated solid waste
2. Decharacterized hazardous waste meeting the LDRs

The I/O staging area and 10-day transfer area are collocated on the E. 8<sup>th</sup> Avenue property.

##### **I/O Staging & 10-Day Transfer Areas:**

1. Acids
2. Toxic Organics and Metals
3. Non-flammable solvents and halogens
4. Asbestos
5. Flammable liquids and solids

6. Explosives (pass-through; no treatment or processing onsite)
7. Reactive cyanides, sulfides, and metals
8. Poisons
9. Oxidizers
10. Caustics
11. Non-Hazardous and Non-Regulated solid waste

All vehicles containing hazardous waste are placarded and manifested per DOT and RCRA requirements. The placards will identify the hazard class of each trailer, roll-off, tanker, or vehicle.

**Transfer Facility Vehicles (Located in the vehicle loading and unloading areas):**

1. Trailers
2. Box Trucks
3. Vans
4. Tankers
5. Roll-Offs
6. Vacuum Trucks

Processing equipment at the facility operates on a batch mode. The equipment will be shut off and disconnected when emergency situations occur. Waste containers in process will be closed when the equipment is shut down for an emergency.

**Processing Equipment:**

1. Paint Can Crusher
2. Drum Crusher/Rag Compactor
3. Transfer Pumps (portable air, electric, and manual)
4. Industrial Shredder
5. Excavator
6. Front End Loader

***2.6.5 Waste Types Managed***

Approximately 1/3 of the waste managed at the facility is non-hazardous or non-regulated. These containers can be identified by a blue "Non-Regulated Waste" or a green "Non-Hazardous" label. The material presents **no hazard** (such as poison, flammable, corrosive, reactive, oxidizer) if the container does not have a DOT label. However, any release must be contained to prevent a release which may potentially contaminate waters or soils.

Several trailers may be at the facility which do not contain hazardous or non-hazardous wastes. These trailers may be empty, contain new empty drums, or contain used empty drums for recycling. No potential hazard is associated with these vehicles.

The USE emergency coordinator will coordinate the identification of hazardous materials involved in an emergency incident requiring implementation of the contingency plan. A complete inventory of all waste materials onsite is available at the facility. The identification can be narrowed by the source of the incident. For example, if an incident occurred in Bay 2 of the CSB, the materials would be limited to flammables and reactives. All containers are identified by a unique USE identification number, DOT hazard class labels, and hazardous waste shipping labels. The contents of any container can be fully characterized if the USE identification number is known. The facility's quality control laboratory will be used if it is necessary to characterize a sample of a potential hazardous material. The USE emergency coordinator is therefore able to identify the

source, characteristics, amount, and extent of any released materials, by observations, review of facility data, records and shipping documents, or by chemical analysis.

### **2.6.6 Hazardous Materials Emergency Response References**

The following is a list of references available in the main office building at the USE facility:

1. HAZARDOUS CHEMICAL DATA, Department of Transportation/U.S. Coast Guard
2. HAZARDOUS MATERIALS EMERGENCY RESPONSE GUIDEBOOK, Department of Transportation/DOT P 5800.2
3. MERCK INDEX
4. HANDBOOK OF HAZARDOUS MATERIALS, Sax
5. NFPA 101 LIFE SAFETY CODE
6. CANCER CAUSING CHEMICALS, Sax
7. TOXIC ORGANIC CHEMICALS, E. Ellsworth Hackman III
8. NIOSH REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES
9. EMERGENCY FIRST AID, American Red Cross
10. CONDENSED CHEMICAL DICTIONARY, Hawley
11. HAZARDOUS MATERIALS, SUBSTANCES, & WASTES COMPLIANCE GUIDE

## **2.7 Hazard Assessment**

The USE emergency coordinator will assess the potential hazards to human health or the environmental that may result from a release, fire, or explosion of a hazardous substance. The assessment will consider both direct and indirect effects of the release, fire, or explosion.

The contingency plan will be implemented whenever the USE emergency coordinator determines an imminent or actual hazard exists that could threaten human health or the environment. This section provides the criteria used by the USE emergency coordinator in deciding to implement the contingency plan.

### **2.7.1 Fire or Explosion**

For incidents involving a fire or explosion, the following situations will result in contingency plan implementation:

1. A fire which could cause the release of toxic fumes.
2. A fire which could spread and possibly ignite other materials or which could cause heat-induced explosions.
3. A fire which could spread to off-site areas.
4. The use of water or chemical fire suppressants which could result in contaminated runoff.
5. The imminent danger of an explosion which could result in a safety hazard due to flying fragments or shock waves.
6. The imminent danger of an explosion which could result in the release of toxic materials.
7. The occurrence of any explosion.

### **2.7.2 Fire Fighting Procedures**

The USE facility is equipped with both smoke and flame detectors. Both are monitored on a twenty-four hour per day basis. If either are activated, the sprinkler and/or foam systems will automatically engage. The Tampa Fire Department is notified automatically by the continuous alarm/monitoring system in the case of the activation of a smoke or flame detector.



Also included in the monitoring system are two LEL detectors located within the flammable storage area (Bay 2 in the CSB). One is mounted in the spill sump to detect vapors which are denser than air, while the second is mounted on the ceiling to detect vapors that are less dense than air. If vapors in the flammable area exceed 10% of the LEL, the ventilation system will automatically engage and the sprinkler and foam systems will be activated automatically. The Tampa Fire Department is notified automatically at 10% LEL.

Located throughout the facility are fire extinguishers for Class A, B or C fires. Located in the flammable area are Halon extinguishers (or equivalent). Fire hoses are located throughout the facility.

In the event of a fire, the following activities will be performed:

1. Notify other employees and if evacuation is necessary, sound the air horns and alarms.
2. Notify the Tampa Fire Department (911).
3. Move all transport vehicles away from the loading or unloading areas.
4. Control the fire with extinguishers if it can be done safely.
5. The facility is designed for minimal manual fire suppression.
6. Notify necessary agencies as indicated.

### **2.7.3 *Unplanned Material Release***

The contingency plan will be implemented for any release to the environment which results in one or more of the following conditions:

1. A spill which could result in the release of flammable liquids or vapors, thereby causing a fire or explosion hazard.
2. A spill which could cause the release of toxic liquids or fumes.
3. A spill which could be contained onsite, but which could potentially result in groundwater contamination.
4. A spill which cannot be contained onsite resulting in offsite soil, groundwater, or surface water contamination.
5. Any flooding of the site which could result in surface water contamination.

## **2.8 Personal Protective Equipment**

In order to provide adequate protection from hazardous exposures, personal protective equipment (PPE) must be used. The following indicates various hazardous situations and the PPE that is required.

### **2.8.1 *Level A Protection***

#### Hazard Involved:

- Situations immediately dangerous to life and health (IDLH).
- Oxygen deficient atmospheres.
- Unknown hazardous materials.
- Chemicals which can be absorbed through the skin.
- Materials which cannot be removed with an air purifying respirator.

#### Required PPE:

- SCBA or airline respirator with SCBA escape air system.
- Full body encapsulation suit.

### **2.8.2 Level B Protection**

#### Hazard Involved:

- Oxygen deficient atmosphere where chemical composition of the material is known and falls into the classification of an irritant.

#### Required PPE:

- SCBA or airline respirator with SCBA escape air system.
- PVC splash suit with hood.
- Neoprene/nitrile/butyl rubber arm length gloves.
- Steel-toed rubber boots.

### **2.8.3 Level C Protection**

#### Hazard Involved:

- Situations not immediately dangerous to life and health.
- Sufficient oxygen present to support life.
- Irritant or corrosive chemicals.
- Contaminated soils.
- Liquids/solvents not immediately dangerous to life and health.

#### Required PPE:

- Full-face mask with air purifying (cartridge) respirator, or half-face air purifying (cartridge) respirator with goggles and face shield.
- PVC splash suit.
- Protective gloves (type dependent on chemical being handled).
- Steel-toed rubber boots.

### **2.8.4 Level D Protection**

#### Hazard Involved:

- Situations which contain no immediate hazard, but where there is the potential for accidental release of a hazardous substance.

#### Required PPE:

- Half-face air purifying (cartridge) respirator.
- Safety goggles.
- Disposable coveralls.
- Surgical rubber gloves or suitable hand protection.
- Rubber boots.
- Steel-toed shoes.

## **2.9 Containment & Control Measures**

The purpose of this section is to alert all emergency response groups, regulatory agencies and affected parties, as to the location of the hazardous waste storage areas within the facility, the design of containment control, and the procedures to be followed in response to emergencies, whether fire, explosion or spill. **It must be understood that potentially toxic gases and vapors may be present in any incident involving hazardous materials.**

### **2.9.1 Entrance Procedures**

The following procedures are to be followed by all response personnel before entering the hazardous waste storage areas in emergency situations:

1. Consult the attached drawings (Figures 1 and 2) which indicate the layout of the facility and the types and locations of materials which would be stored in the area to be entered. A general description of these areas is included in the next section.
2. Assume toxic/hazardous materials are present in the area. A complete waste inventory is kept in the facility office.
3. Select proper PPE, including a SCBA, as necessary.
4. Consult DOT P 5800.2 HAZARDOUS MATERIALS EMERGENCY RESPONSE GUIDE BOOK which is available in the facility office.

Remember, the primary responsibility during initial emergency response efforts is to save lives and protect the environment.

### **2.9.2 Fire or Explosion Response Procedures**

1. Notification to evacuate the USE facility during an emergency would be handled by one of several methods including:
  - a. Emergency air horns are located throughout the facility and are sounded when evacuation is necessary.
  - b. Pull alarms are located throughout the facility.
  - c. Two-way radios are available and used for communications throughout the facility.
  - d. Landline telephones are available throughout the facility. The telephone in the CSB is located in Bay 1 near the northwest exit.
  - e. Cellular phones are available at the facility.
2. In the event of an emergency situation (e.g., fire or explosion) the first employee to notice it is to immediately sound the emergency air horns and/or alarms located throughout the facility.
3. All employees are to don the necessary PPE including a SCBA, as necessary. This equipment is located in the safety equipment cabinets in Bays 1 and 3 of the CSB, in the storage room in the main facility office building, and in the safety equipment and supply building. Additional safety equipment is provided in these locations. Supplemental safety equipment for various situations is listed in Appendix C.
4. Firefighting should begin immediately under the direction of the USE emergency coordinator until the first responders arrive onsite. Refer to the CHRIS (Chemical Hazardous Response Information System) Manual for additional information.
5. The USE emergency coordinator is to contact emergency services and response agencies immediately (see Appendix A).
6. In the event of a fire or explosion, the sprinkler and foam systems will be automatically activated. Both the alarm and sprinkler system are monitored on a 24-hour basis. When the alarm or sprinklers are activated, the Tampa Fire Department will be notified immediately and automatically.
7. Electric service to the CSB should be shut off in the event of a fire or explosion. The main electric shut off is located on the outside south wall of the CSB. No additional process systems, valves, gauges or equipment are required to be monitored or shut down since no potentially dangerous processes are employed at the facility.

8. All waste handling or processing in the affected area will be stopped immediately.
9. All waste feed lines and waste processing equipment will be shut down when this can be done safely. There are no continuous treatment processes. All treatment is on a batch basis. Power outages will simply make these processes inoperable.
10. Evacuation of the facility may be necessary in IDLH situations. This decision will be made by the USE emergency coordinator. If the evacuation occurs, the primary evacuation route should be used unless blocked or impassable. In that situation, the secondary evacuation route should be employed. Both routes are prominently outlined at the facility and are included with this plan (see Figure 7).

### **2.9.3 Spill or Release Response Procedures**

The CSB and WPB at the facility are designed so that the rupture of containers would result in no release of contaminants outside of the facility. The storage area for acidic and alkaline wastes in the CSB are segregated to ensure that no co-mingling of these materials will result. All flammable/combustible materials are also stored in a separate bay in the CSB. All incompatible materials stored in the CSB have separate containments.

In the event of a spill, certain procedures must be instituted immediately. Immediately contact all required individuals/response agencies as indicated in Section 2.2 of this document. These telephone numbers are posted at all facility telephones are provided in Appendix A hereto.

Should a spill or release occur, the following steps are to be taken:

1. Sound an alarm to notify of an emergency.
2. Don protective equipment located in safety cabinets.
3. Contact USE emergency coordinator.
4. The source of the spill/release will be determined and corrected. Further, the character, estimated amount, and extent of the release will be determined by appropriate emergency response personnel.
5. Waste handling or processing in the affected area will be stopped immediately.
6. All waste feed lines and waste processing equipment will be shut down as soon as this can be done safely.
7. All non-response personnel will leave the area immediately.
8. All injured persons will be removed from the area and treated by qualified medical personnel.
9. Contain the spill with sorbent boom, sorbent pillows, or bulk sorbent material. All sorbents and booms are stored in the spill control storage area in the CSB and the main facility office building for use in the WPB.
10. In the event of an acid spill, use calcium carbonate or lime to neutralize the spill.
11. Use citric acid to neutralize alkaline spills.
12. Once the spill has been contained, begin cleanup.
13. Contact the response contractors and request mobilization of personnel or equipment, if necessary. USE will serve as the primary response contractor and SWS Environmental will serve as alternate, or backup response contractor (see Appendix A).
14. The USE emergency coordinator will contact all required agencies and note the discharge in the operating record.
15. If immediate evacuation of the CSB is required, two 5-minute egress bottles are attached to the supplied air system. Additional respiratory and personal protective clothing are located in the safety equipment cabinet located in Bay 3 of the CSB.

16. In the event that a release outside the facility leads to surface water, groundwater or soil contamination, USE emergency coordinator will contact necessary contractors' for all required remediation efforts.

#### ***2.9.4 Care of the Injured***

In the event of an emergency, the objective is to provide first aid or immediate care for a person who has been injured or suddenly taken ill. Implement emergency first aid as required. Key USE facility personnel are trained in standard first aid and cardiopulmonary resuscitation (CPR) through accredited training organizations. First aid kits located in the CSB, WPB and the main facility office.

All injured shall be taken to Brandon Hospital or Tampa General Hospital by the local ambulance service. These hospitals have been notified as to the type of injuries which may result at our facility. In an emergency situation, they should be informed of the extent of the emergency and what injuries to expect. Routes to the hospitals are included on Figure 8.

The nearest emergency medical service and life squad is the City of Tampa Fire Department who can be contacted by dialing 911.

### **2.10 Post-Emergency Operations**

#### ***2.10.1 Decontamination Procedures***

After an emergency incident, decontamination of equipment is required. All expendable items, such as sorbent, booms and so on are to be placed into 55-gallon drums and disposed as required by state and federal law. Non-expendable items such as tools, chemical suites and material handling equipment are to be cleaned in an appropriate solvent and placed back in their normal location. The suitable solvent will be determined by a USE emergency coordinator or senior chemist. Disposal of the spent solvent will comply with applicable regulations.

Specific decontamination solutions and strategies to be employed at the USE facility include:

##### *Inorganic/Organic Acids*

Prepare a mixture of 10% sodium carbonate or 10% hydrated lime or 10% trisodium phosphate in water. Clean items/area with cloth or mop. Wear appropriate PPE.

##### *Alkali (Caustics)*

Prepare mixture of 5% acetic acid (vinegar) or 5% citric acid in water. Clean items/area with cloth or mop. Wear appropriate PPE.

##### *Oils and PCB*

Methylene chloride or isooctane applied directly to the contaminated area. Remove solvent and contaminant with sorbent or absorbent cloths. Wear appropriate PPE.

##### *Alkali and Alkaline Earth Metals*

Cover immediately with dry soda ash (sodium-carbonate) and remove with broom and shovel. Keep dry and do not contact with water. Wear appropriate PPE.

### Solvents

Cover with absorbent material as quickly as possible. Remove with broom and shovel. Wear appropriate PPE.

### Mercury

Recover as much bulk mercury as possible. Cover the spill area using Mercksorb, HgX, or equivalent and spray with water to activate the material. Keep area well ventilated. Wear appropriate PPE.

All tanks and containerized waste will be thoroughly inspected for leaks, pressure build-up and structural integrity by the USE emergency coordinator. Any deficiencies will be immediately corrected.

Operations at the facility will not commence until such time as all emergency equipment has been cleaned, replaced and restored to its original location. All emergency equipment will be tested to determine its effectiveness prior to resuming operation after an emergency incident. A supplemental list of emergency equipment available at the USE facility is included in Appendix C.

## **2.10.2 Reentry Monitoring**

Before employees are allowed to return to the area after an emergency, the USE emergency coordinator will confirm the area is safe for re-entry. This will be accomplished by physical inspection of the area, the use of detection equipment, followed by decontamination as specified above in Section 2.10.1, if necessary. Air monitoring will be performed as required to ensure the facility is safe to resume normal operations. Chemical detection equipment or facilities available at the USE facility is as follows (note these items are located in the main facility office):

1. Chemical detector tubes (Draeger, MSA)
2. Explosion meter
3. Portable Organic Vapor Analyzer (OVA)
4. Portable pH/specific ion meter
5. The facility's quality control laboratory.
6. A fully equipped contract environmental laboratory is located nearby. Any wet chemical or instrumental analyses can be performed as required.

## **2.10.3 Emergency Waste Movement Coordination**

In the event of an emergency situation where the movement of waste materials is required, the following procedures are to be employed:

1. Contact the USE emergency coordinator.
2. Contact USE and/or subcontract drivers.
3. Perform waste characterization verification as described in the USE Waste Analysis Plan (refer to Section 4.0 of Volume 1 of 3).
4. Contact FDEP Emergency Response Group and the FDEP Southwest District Office to inform them of the emergency waste movement.
5. Load waste into drums, tankers, roll-off containers, or other suitable containers.
6. Load the containers to the vehicles. Follow all applicable DOT regulations pertaining to placarding, labeling, and loading.
7. Complete all shipping documents as required.

8. Dispatch waste shipments offsite to preapproved permitted waste treatment or disposal facilities.

#### ***2.10.4 Post-Emergency Assurances***

No waste material that may be incompatible with any released material will be treated or stored in a portion of the facility where a release occurred until the decontamination and reentry procedures specified above in this Section are completed. All emergency equipment utilized will be cleaned and fit for its intended use before facility operations resume. Inoperable emergency equipment will be serviced, repaired, or replaced.

#### ***2.10.5 Post-Emergency Documentation***

##### **Operating Record**

The USE emergency coordinator will note in the facility operating record the time, date, and details of any incident that requires Contingency Plan implementation.

##### **Reporting**

The USE emergency coordinator will submit a written incident report to the FDEP and other required agencies within 15 days after any incident at the USE facility requiring Contingency Plan implementation. The report will include the following information:

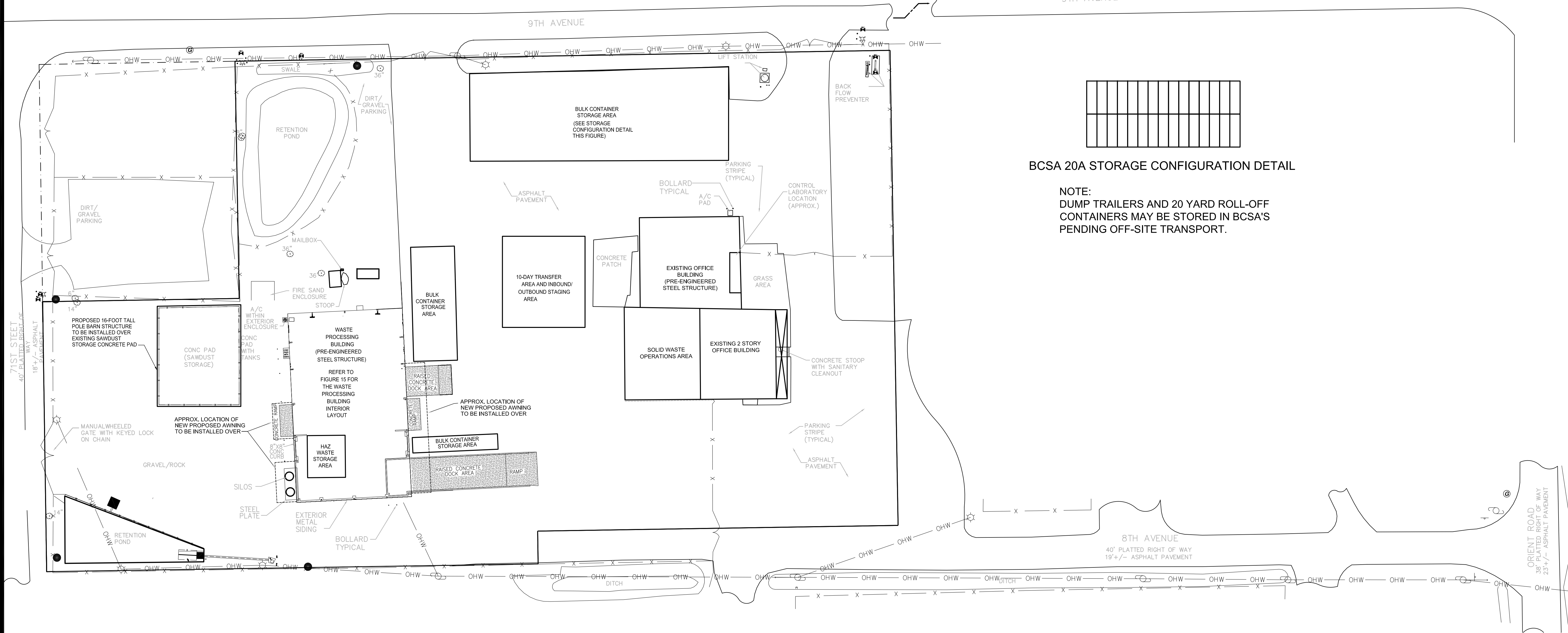
1. Name, address, and telephone number of the appropriate USE contact person;
2. Name, address, and telephone number of the USE facility;
3. Date, time, and type of incident;
4. Name and estimated quantity of materials involved;
5. Estimated quantity and disposition of any recovered materials resulting from the incident;
6. The extent of injuries, if any; and,
7. An assessment of hazards to human health or the environment, if applicable.

The report will be mailed (sent electronically to the FDEP) to the following parties, as necessary and/or appropriate:

Fire Chief Tampa Fire Department 808 East Zack Street Tampa, FL 33602	National Response Center (NRC) c/o U.S. Coast Guard (CG-5335) - Stop 7581 2100 2nd Street, SW Washington, DC 20593-0001
Hazardous Waste Compliance Assurance Program Lead FDEP Southwest District Division of Waste Management 13051 North Telecom Parkway Temple Terrace, FL 33637	Amber Igoe, CHMM FDEP Division of Waste Management Hazardous Waste Program and Permitting 2600 Blair Stone Road M.S. 4560 Tallahassee, FL 32399-2400



## **FIGURES**



**PACSCON**  
Client Centric | Geo-Environmentally Focused



The diagram illustrates the layout of a waste management facility, divided into several functional areas. A north arrow points towards the top of the page, labeled "ASSUMED NORTH". A graphic scale bar indicates distances in feet: 1 inch equals 30 feet for a 24x36 inch drawing, and 1 inch equals 60 feet for a 11x17 inch drawing. The layout includes a "RECYCLABLE MATERIAL STORAGE AREA" (indicated by a large 'R' and a solid rectangle), a "10 DAY TRANSFER + STAGING AREA" (indicated by a row of vertical lines), and several other areas defined by specific patterns: a wavy line pattern for receiving and staging, a diamond grid pattern for receiving, unloading, storage, loading, segregation, transfer, and processing, and a solid rectangle for bulk container storage.

**ASSUMED NORTH**

**GRAPHIC SCALE**

30 0 15 30 60

1 INCH = 30 FEET (24"x36" DRAWING)  
1 INCH = 60 FEET (11"x17" DRAWING)

**LOCATION OF WASTE MANAGEMENT OPERATIONS**

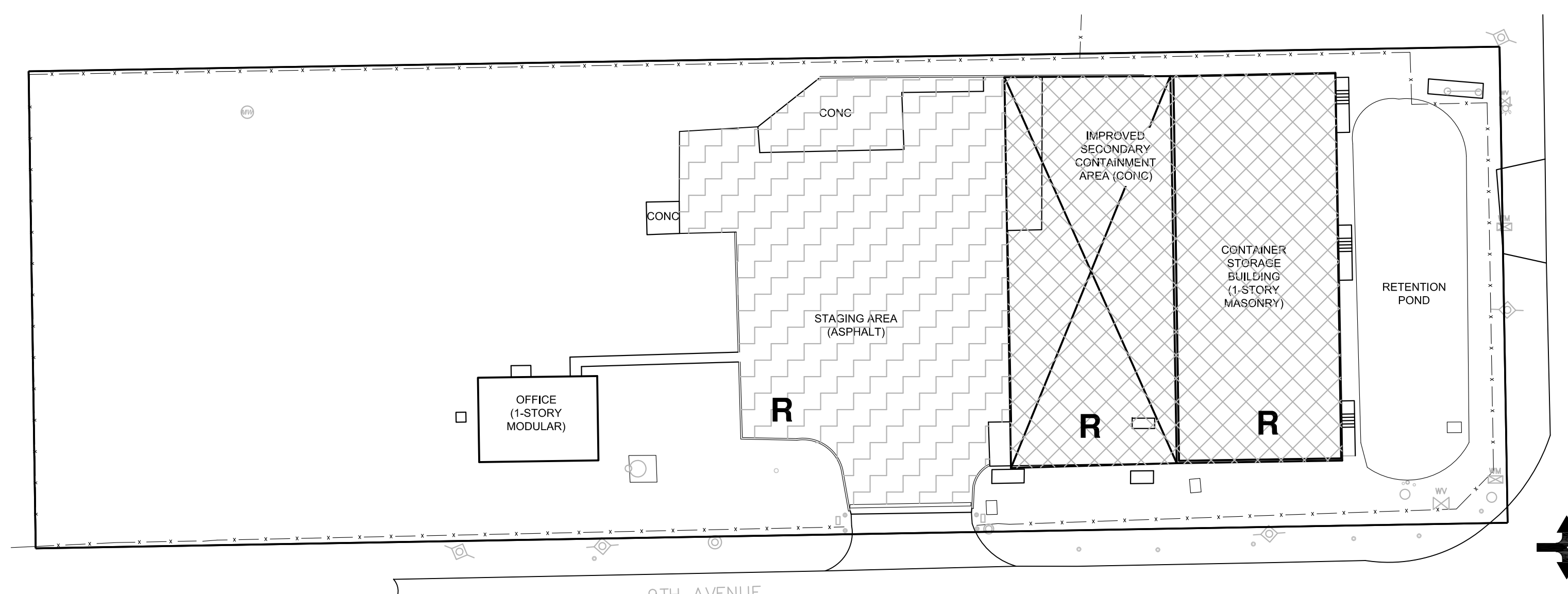
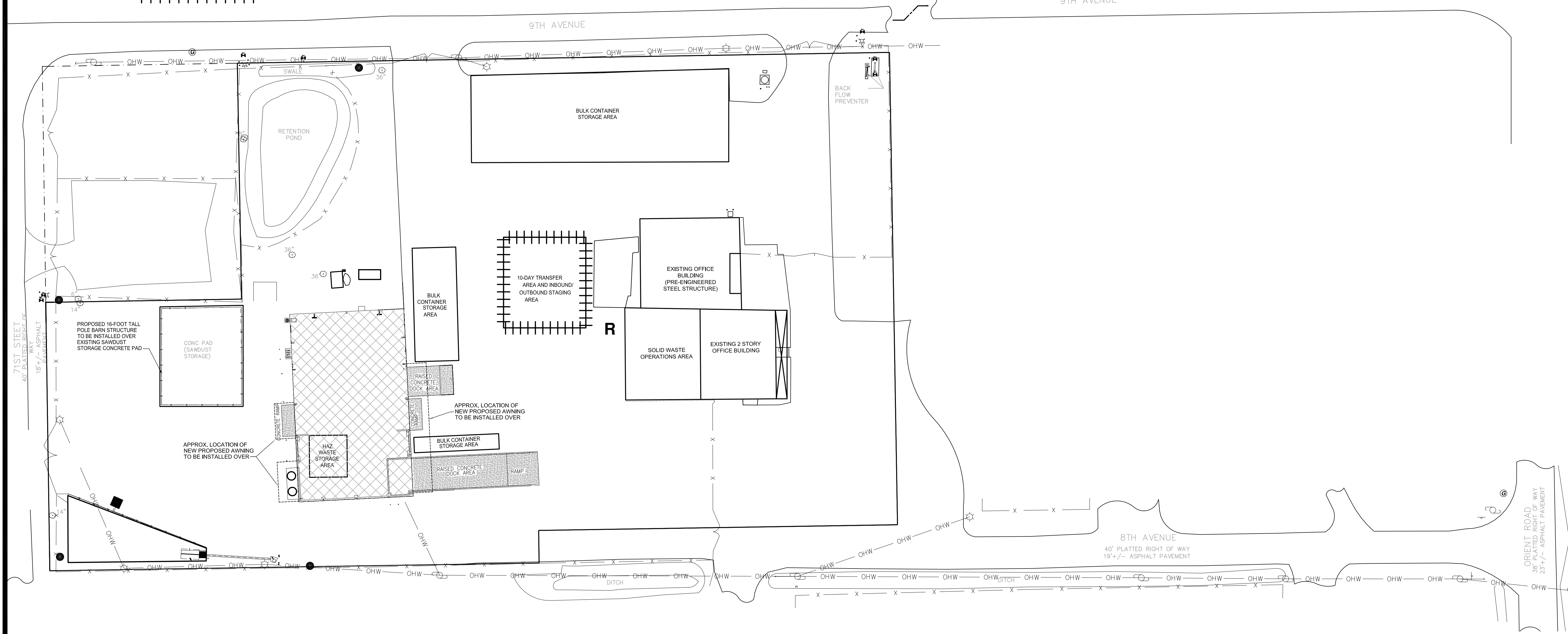
AREA USED FOR WASTE RECEIVING AND STAGING.

AREA USED FOR WASTE RECEIVING, UNLOADING, STORAGE, LOADING, SEGREGATION, TRANSFER AND PROCESSING

AREA USED FOR BULK CONTAINER STORAGE

**R** PRIMARY AREA WHERE RECYCLABLE MATERIAL IS STORED.

10 DAY TRANSFER + STAGING AREA



**PACSCON**  
Client Centric | Geo-Environmentally Focused

PROJECT NO.  
2018-1133

FIGURE  
2 of 8

WASTE MANAGEMENT AREA LOCATIONS

US ECOLOGY TAMPA, INC.

7202 EAST EIGHTH AVENUE

TAMPA, FL 33619

PACSCON GEOENVIRONMENTAL, INC.

2019 OSPREY LANE

LUTZ, FL 33549

ENGINEERING CERTIFICATION OF AUTHORIZATION: 33162

PHONE: (813) 983-4440 E-MAIL: INFO@PACSCON.COM

CAD FILE: 18031201S

DRAWN BY: T.N.

CHECKED BY: C.P.

APPROVED BY:

SCALE: 1/8"=1'

DATE: 03/2019

DATE: 03/2019

DATE:

REV.

DATE

DESCRIPTION

REVISIONS PER FEDER COMMENTS

SCALE VERIFICATION

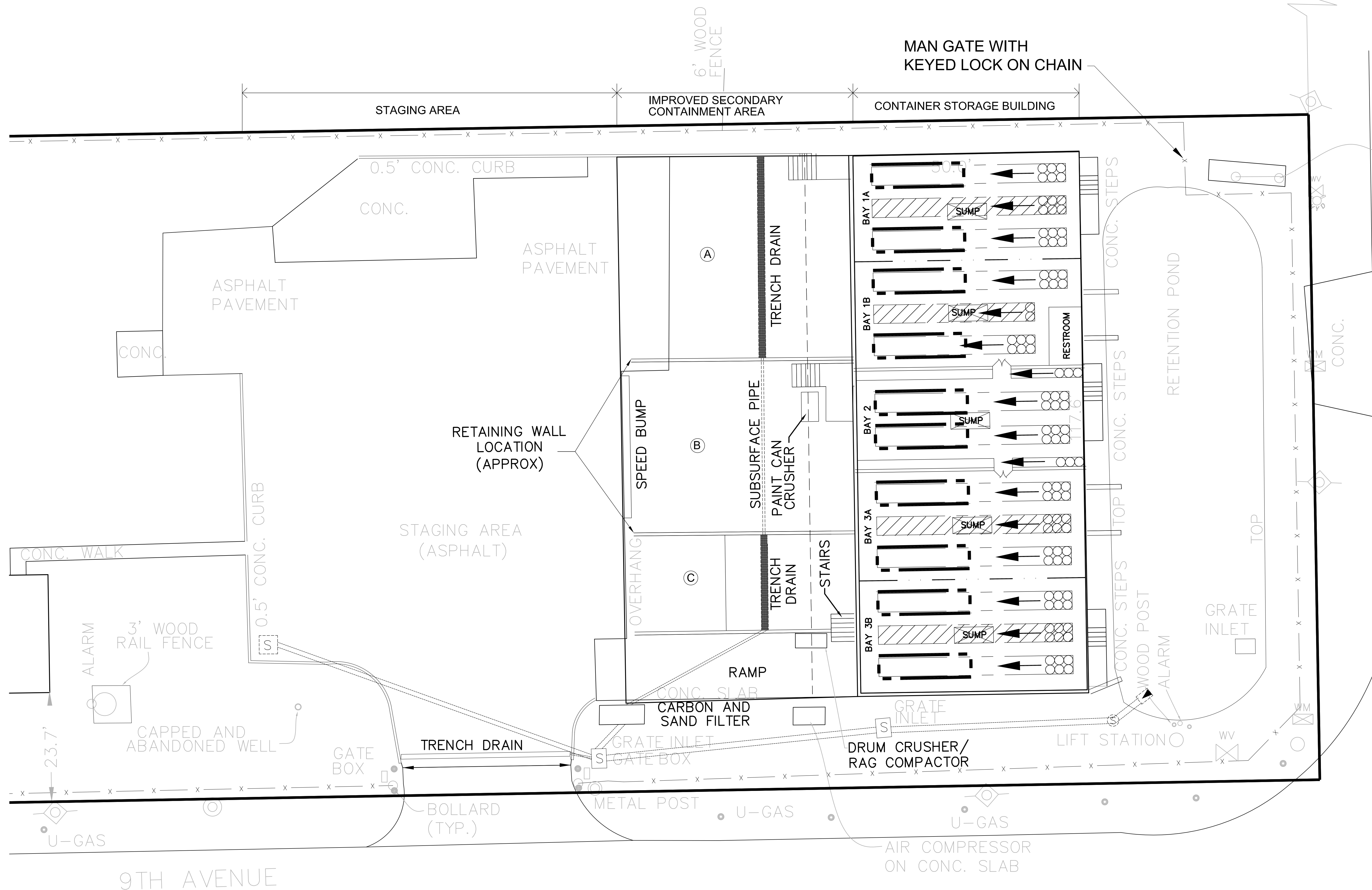
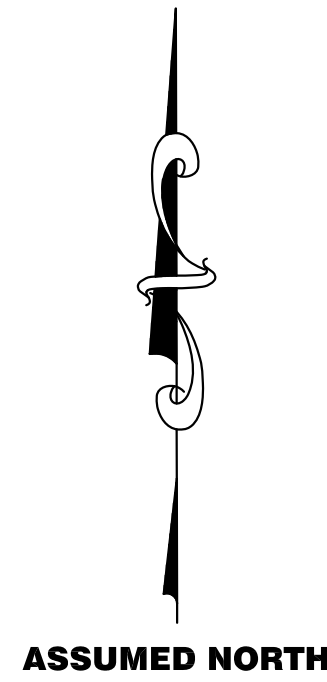
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING

0 1"

USE TO VERIFY FIGURE







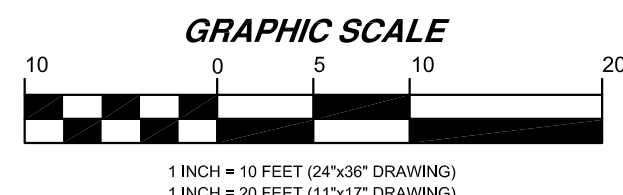
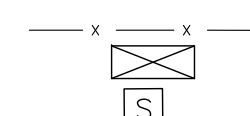
LAST REVISION: 3/27/2019  
LAST PLOTTED: 4/1/2019  
PLOT SCALE: 1:1

INDICATES AREA MAY ALSO BE UTILIZED FOR TEMPORARY PROCESSING AREA.

INDICATES AREA WHERE STORAGE WILL NOT OCCUR WHEN CONTAINERS ARE DOUBLE STACKED

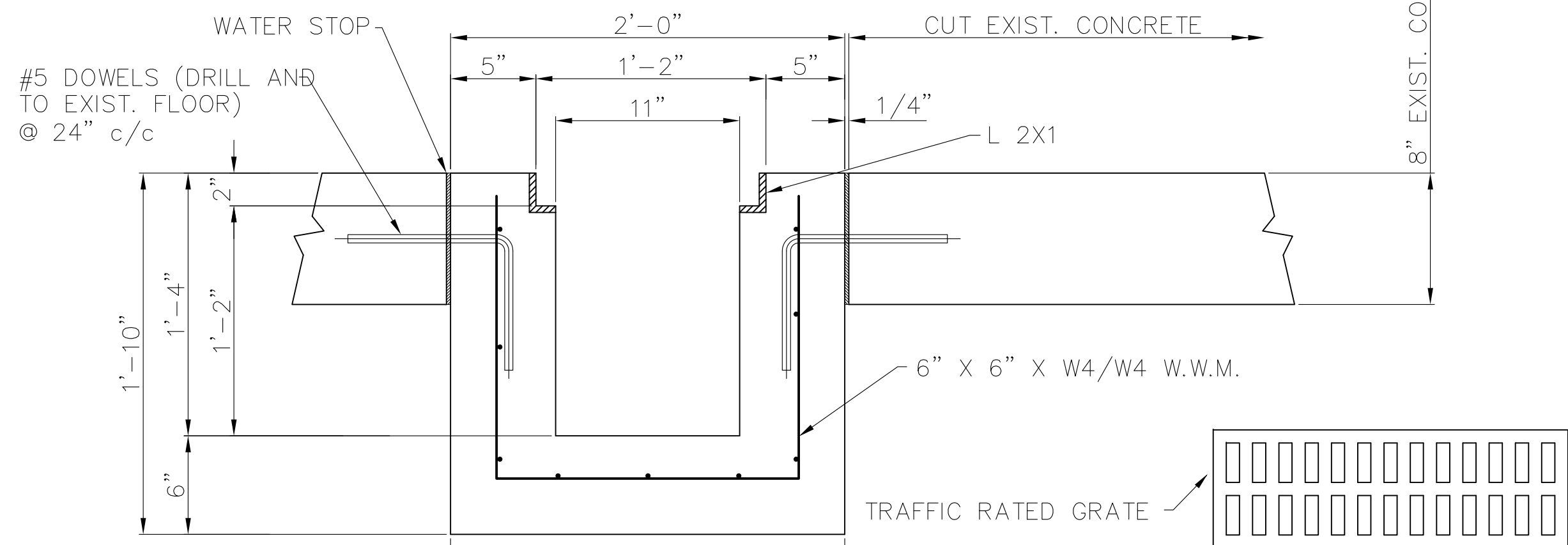
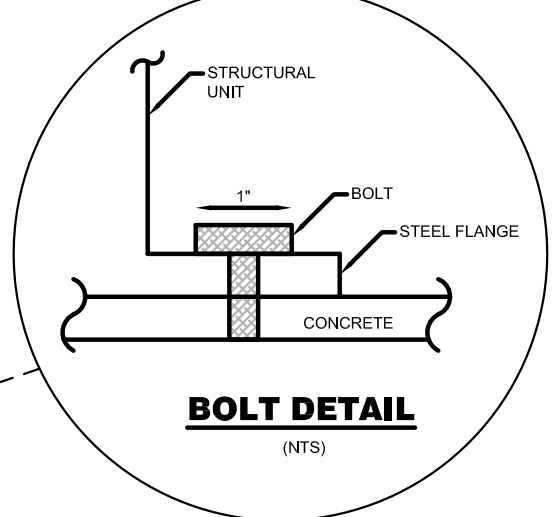
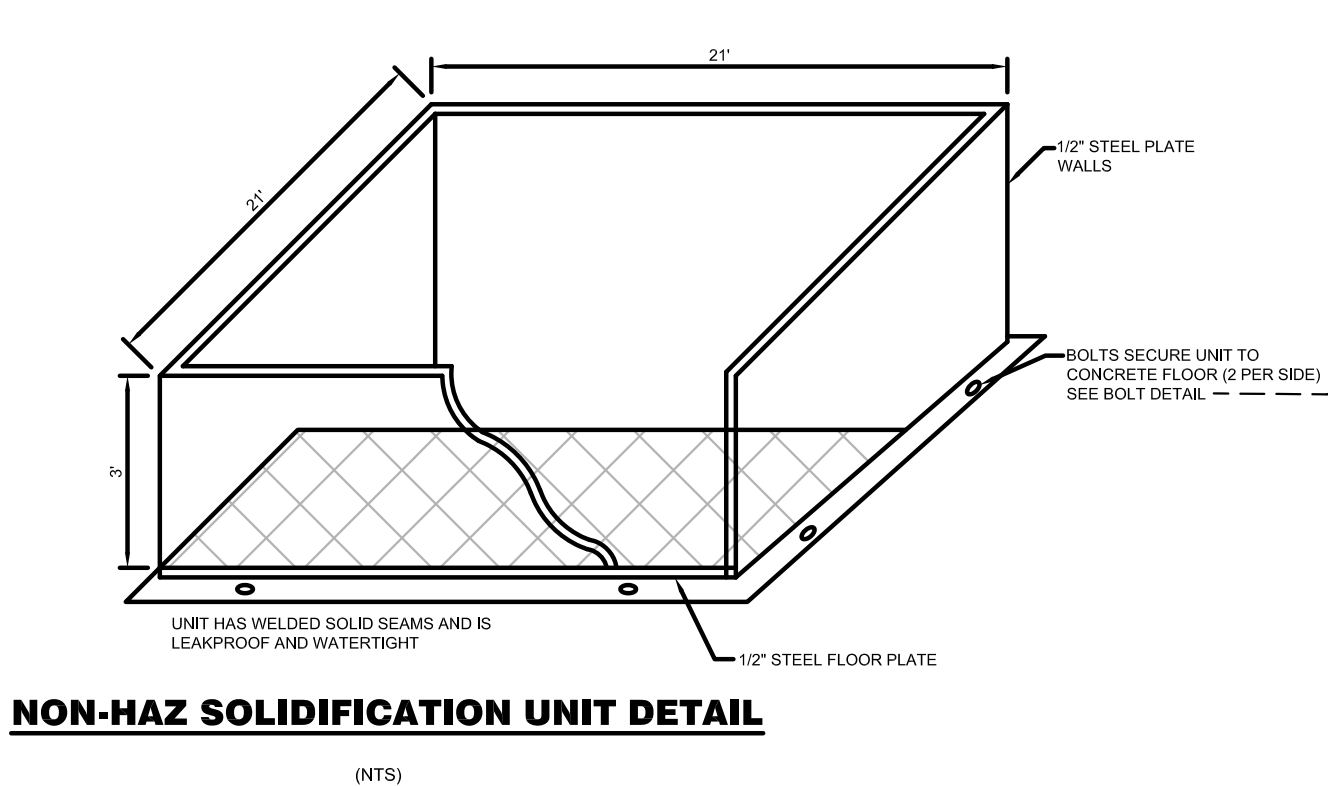
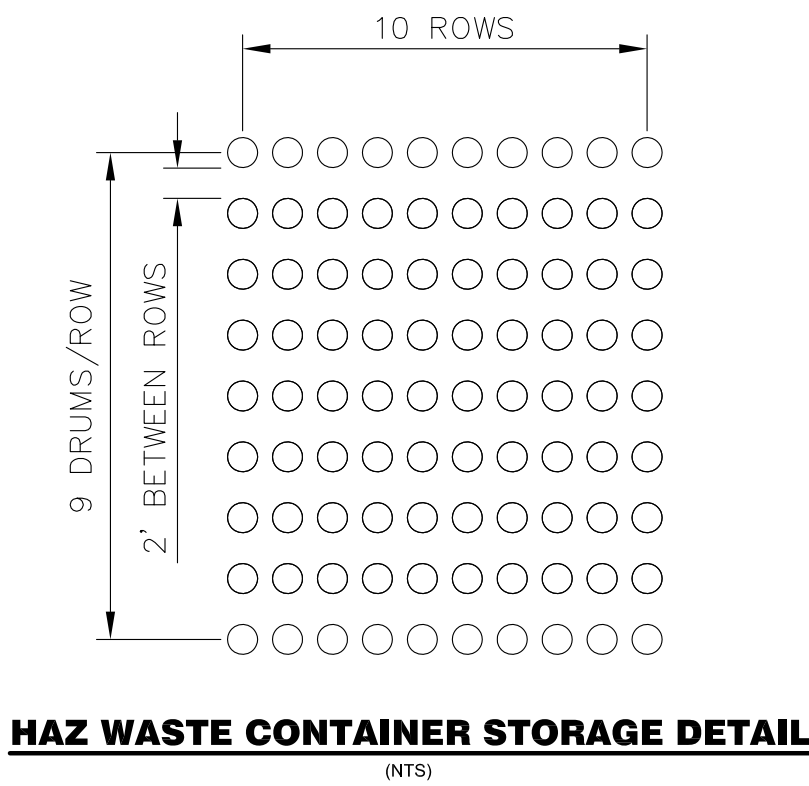
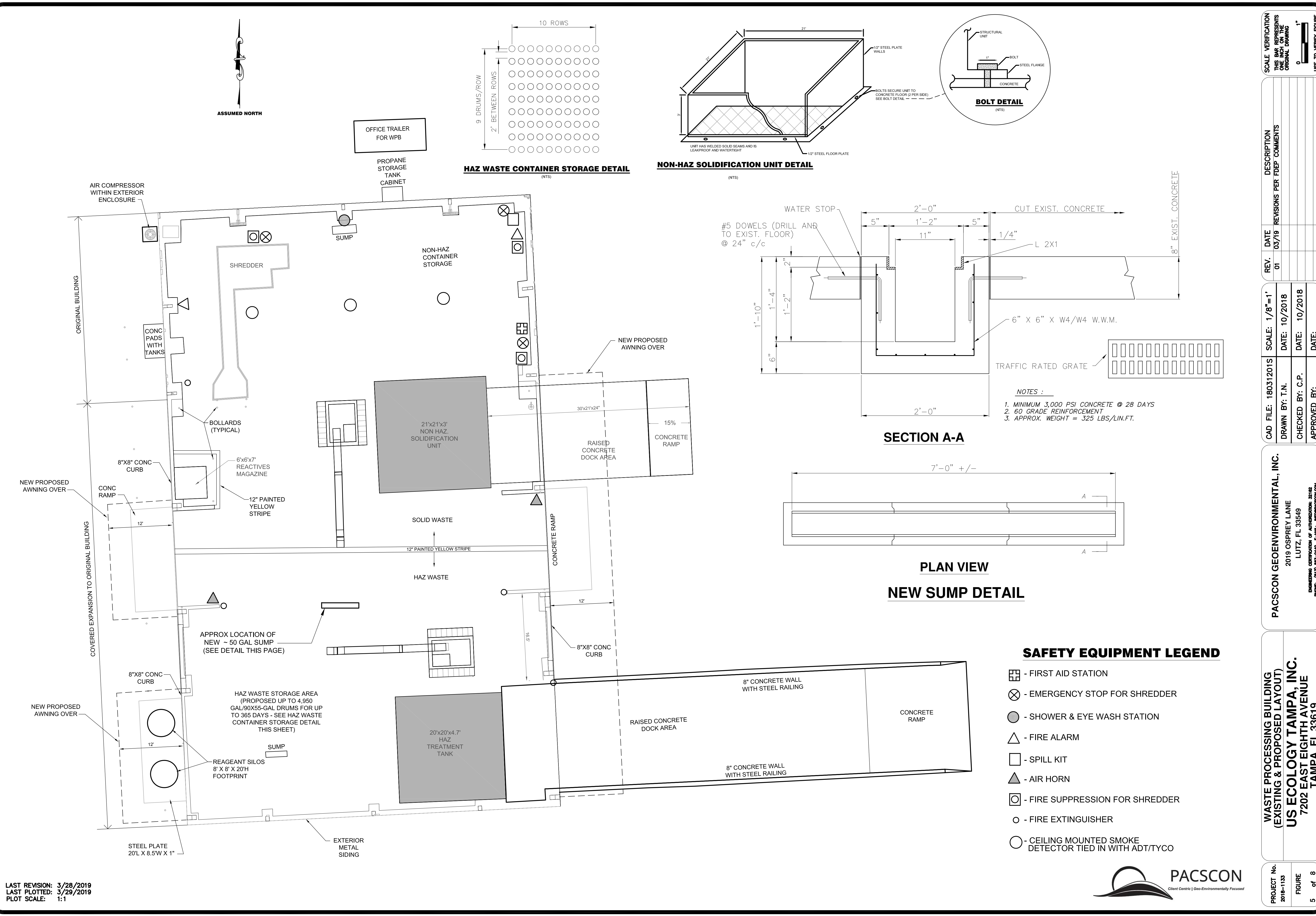
LEGEND

FENCELINE  
SUMP  
STORM DRAIN INLET

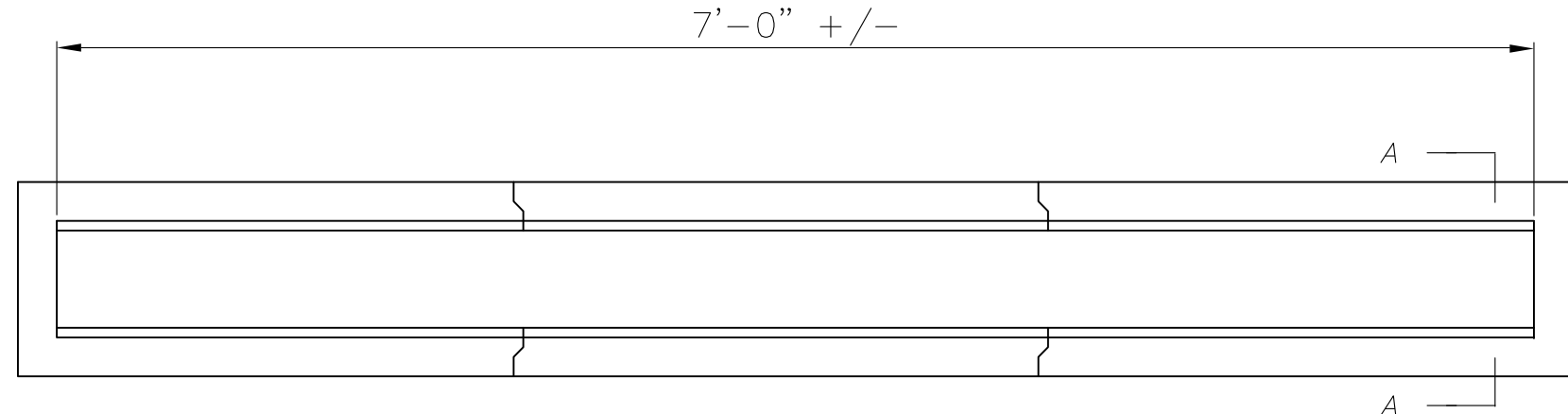


PROJECT No. 2018-1133	FIGURE 4 of 8	CONTAINER STORAGE BUILDING & COVERED PROCESSING AREA LAYOUT		US ECOLOGY TAMPA, INC. 7202 EAST EIGHTH AVENUE TAMPA, FL 33619		PACSCON GEOTECHNICAL, INC. 2019 OSPREY LANE LUTZ, FL 33549 ENGINEERING CERTIFICATION OF AUTHORIZATION 32162 PHONE: (813) 845-0440 E-MAIL: INFO@PACSCON.COM		CAD FILE: 18031201S	SCALE: 1/8"=1'	DATE: 10/2018	DATE: 10/2018	DESCRIPTION		SCALE VERIFICATION THIS DRAWING REPRESENTS THE ORIGINAL DRAWING USE TO VERIFY FIGURE	
		DRAWN BY: T.N.		CHECKED BY: C.P.		APPROVED BY:		REV. 01	DATE: 03/19	REVISIONS PER FDEP COMMENTS		DATE		REV. 01	
		DATE: 10/2018		DATE: 10/2018		DATE:		DATE: 03/19		DATE		DATE		DATE	
		DATE: 10/2018		DATE: 10/2018		DATE:		DATE: 03/19		DATE		DATE		DATE	





- NOTES :
- 1. MINIMUM 3,000 PSI CONCRETE @ 28 DAYS
  - 2. 60 GRADE REINFORCEMENT
  - 3. APPROX. WEIGHT = 325 LBS/LIN.FT.



**SAFETY EQUIPMENT LEGEND**

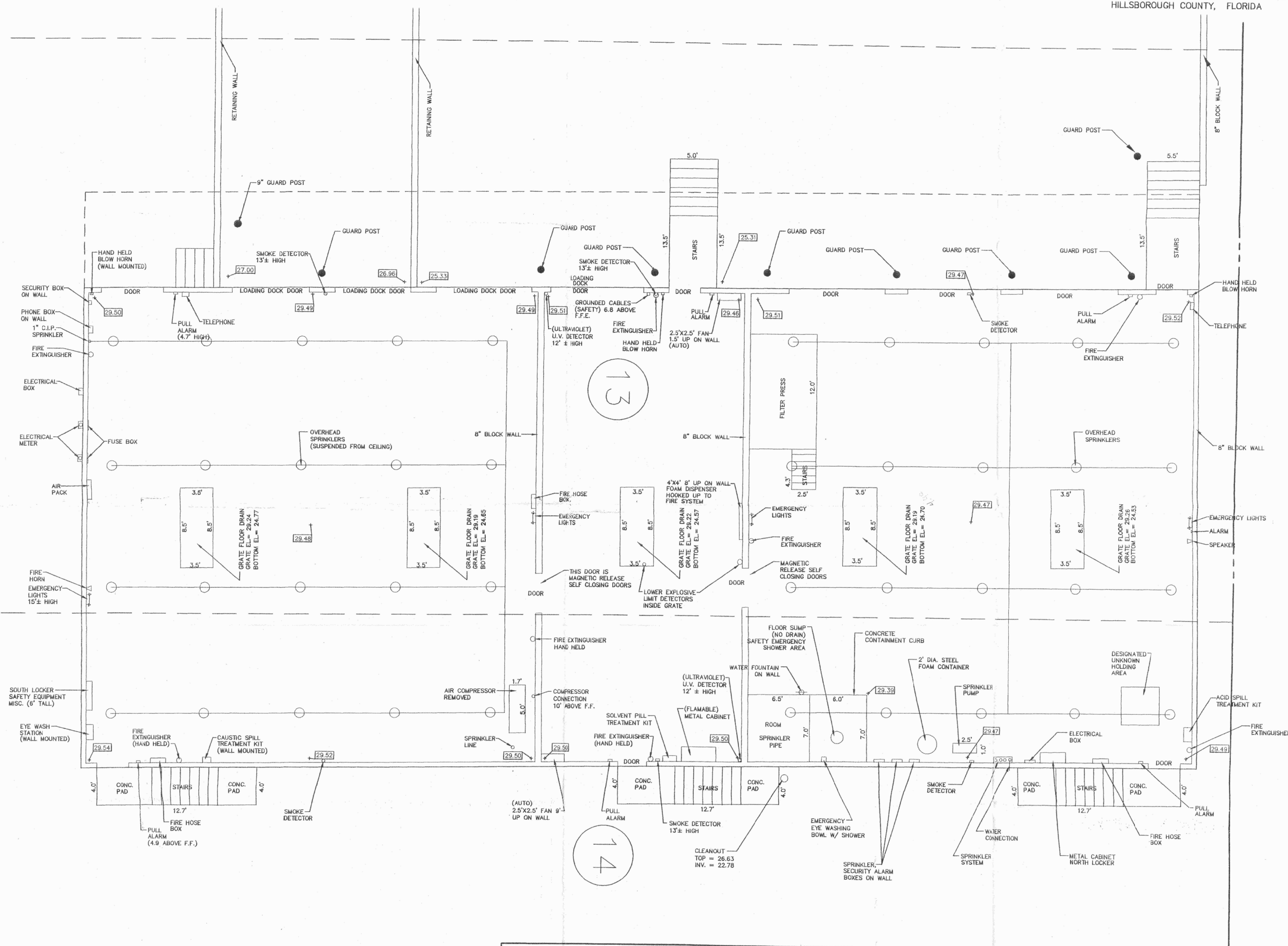
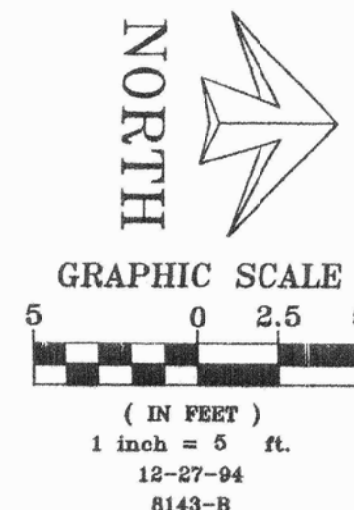
- - FIRST AID STATION
- ⊗ - EMERGENCY STOP FOR SHREDDER
- - SHOWER & EYE WASH STATION
- △ - FIRE ALARM
- - SPILL KIT
- ▲ - AIR HORN
- ⊠ - FIRE SUPPRESSION FOR SHREDDER
- - FIRE EXTINGUISHER
- - CEILING MOUNTED SMOKE DETECTOR TIED IN WITH ADT/TYCO

LAST REVISION: 3/28/2019  
LAST PLOTTED: 3/29/2019  
PLOT SCALE: 1:1



PROJECT No. 2018-1133	FIGURE 5 of 8	WASTE PROCESSING BUILDING (EXISTING & PROPOSED LAYOUT) <b>US ECOLOGY TAMPA, INC.</b> 7202 EAST EIGHTH AVENUE TAMPA, FL 33619	PACSCON GEOTECHNICAL, INC. 2019 OSPREY LANE LUTZ, FL 33549 ENGINEERING CERTIFICATION OF AUTHORIZATION 38182 PHONE: (813) 945-0440 E-MAIL: INFO@PACSCON.COM	CAD FILE: 18031201S	SCALE: 1/8"=1'	DATE: 10/2018	DATE: 10/2018	REV. 01	DATE 03/19	DESCRIPTION REVISIONS PER FDEP COMMENTS	SCALE VERIFICATION THIS DRAWING REPRESENTS ONE INCH ON THE ORIGINAL DRAWING USE TO VERIFY FIGURE
				DRAWN BY: T.N.	CHECKED BY: C.P.	APPROVED BY:					





DATE	No.	REVISIONS	BY	<input type="checkbox"/> PRELIMINARY
				<input type="checkbox"/> CONSTRUCTION
				<input checked="" type="checkbox"/> RECORD DRAWING

CLIENT	DATE
UNIVERSAL WASTE & TRANSIT, INC.	12-12-94
	DRAWN BY JES
SCALE 1" = 5'	CHECKED BY JMH

EXISTING BUILDING PLAN

**CITY ENVIRONMENTAL  
SERVICES OF FLORIDA, INC.**

SEMINOLE ENGINEERING, INC

14483 62nd STREET NORTH  
CLEARWATER, FL. 34620  
TELEPHONE (813) 539-0051

**KBN** KBN ENGINEERING AND APPLIED SCIENCES, INC.  
5405 W. Cypress St., Suite 215 Telephone: (813) 287-1717  
Tampa, Florida 33607 FAX: (813) 287-1718

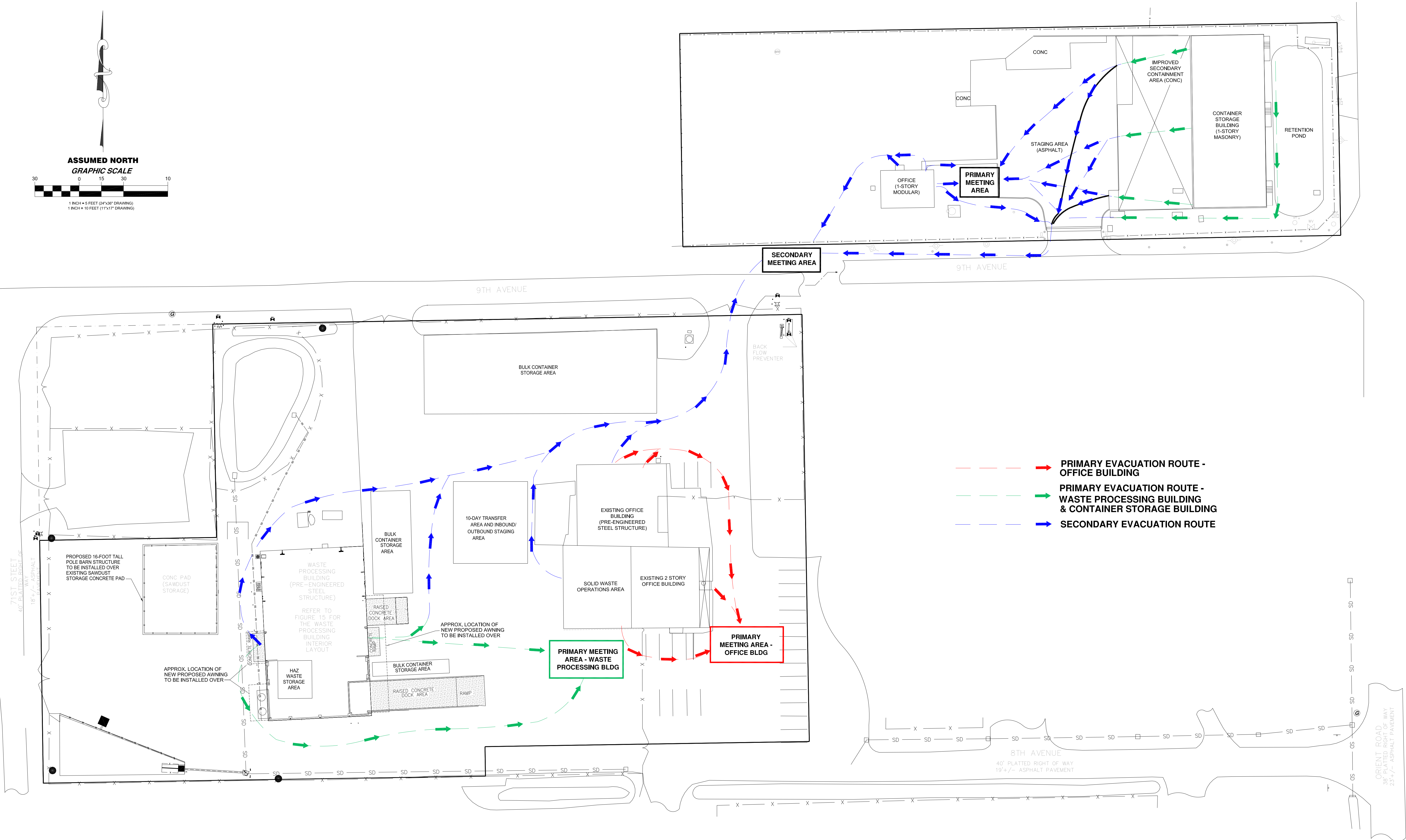
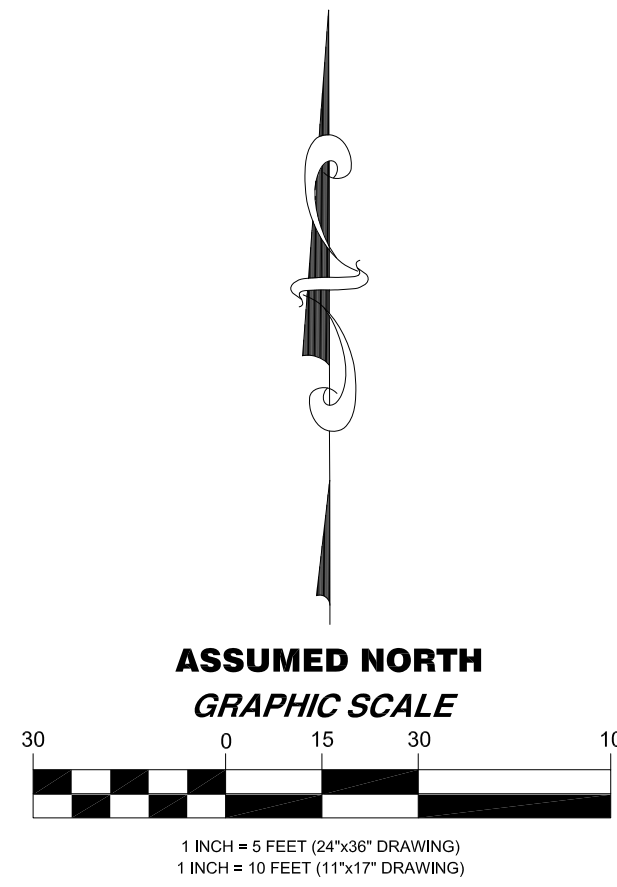
5405 W. Cypress St., Suite 215 Telephone: (813) 287-1717  
Tampa, Florida 33607 FAX: (813) 287-1216

RECORD DRAWING - 11/22/94

James Winter  
JAMES M. WINTER, P.E. # 18313  
DATE: 12/27/04

DWG. FILE No. 8143-B	PROJECT No. 8143
FIELD BOOK No.	ENG. SHEET No.  2 OF 2





- PRIMARY EVACUATION ROUTE - OFFICE BUILDING
- PRIMARY EVACUATION ROUTE - WASTE PROCESSING BUILDING & CONTAINER STORAGE BUILDING
- SECONDARY EVACUATION ROUTE

SCALE VERIFICATION  
THIS SHEET REPRESENTS  
ONE SHEET OF THE  
ORIGINAL DRAWING  
0 1" 1"

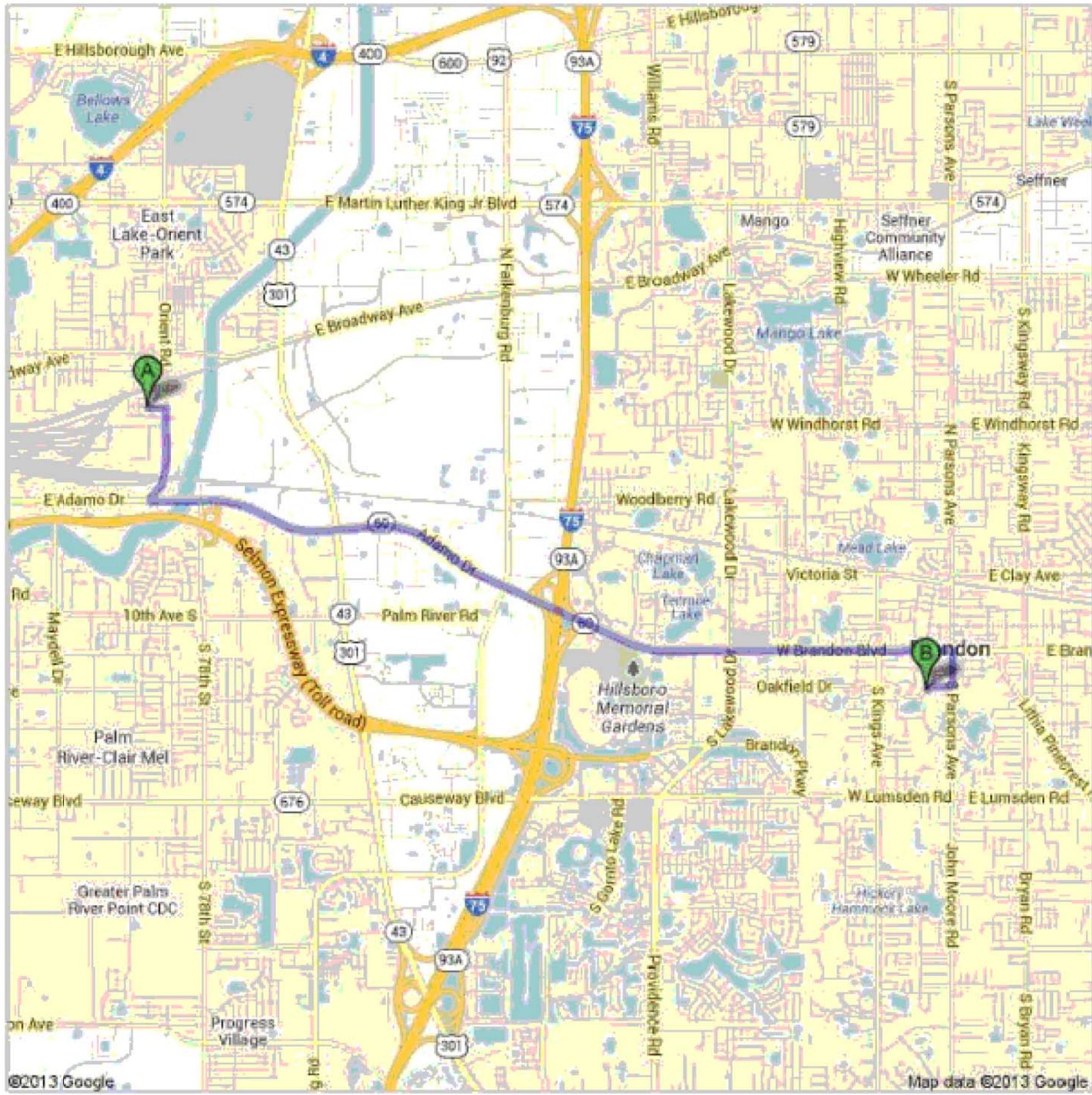
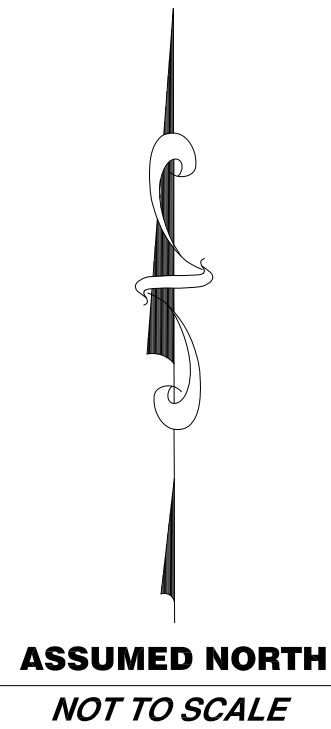
REV.	DATE	DESCRIPTION
01	03/19	REVISIONS PER FDEP COMMENTS

CAD FILE: 18031201S	SCALE: 1/8"=1'
DRAWN BY: T.N.	DATE: 03/2019
CHECKED BY: C.P.	DATE: 03/2019
APPROVED BY:	DATE:

PACSCON GEOTENvironmental, INC.  
2019 OSPREY LANE  
LUTZ, FL 33549  
ENGINEERING CERTIFICATION OF AUTHORIZATION: 32162  
PHONE: (813) 363-0440 E-MAIL: INFO@PACSCON.COM

EMERGENCY PREPAREDNESS PLAN  
US ECOLOGY TAMPA, INC.  
7202 EAST EIGHTH AVENUE  
TAMPA, FL 33619

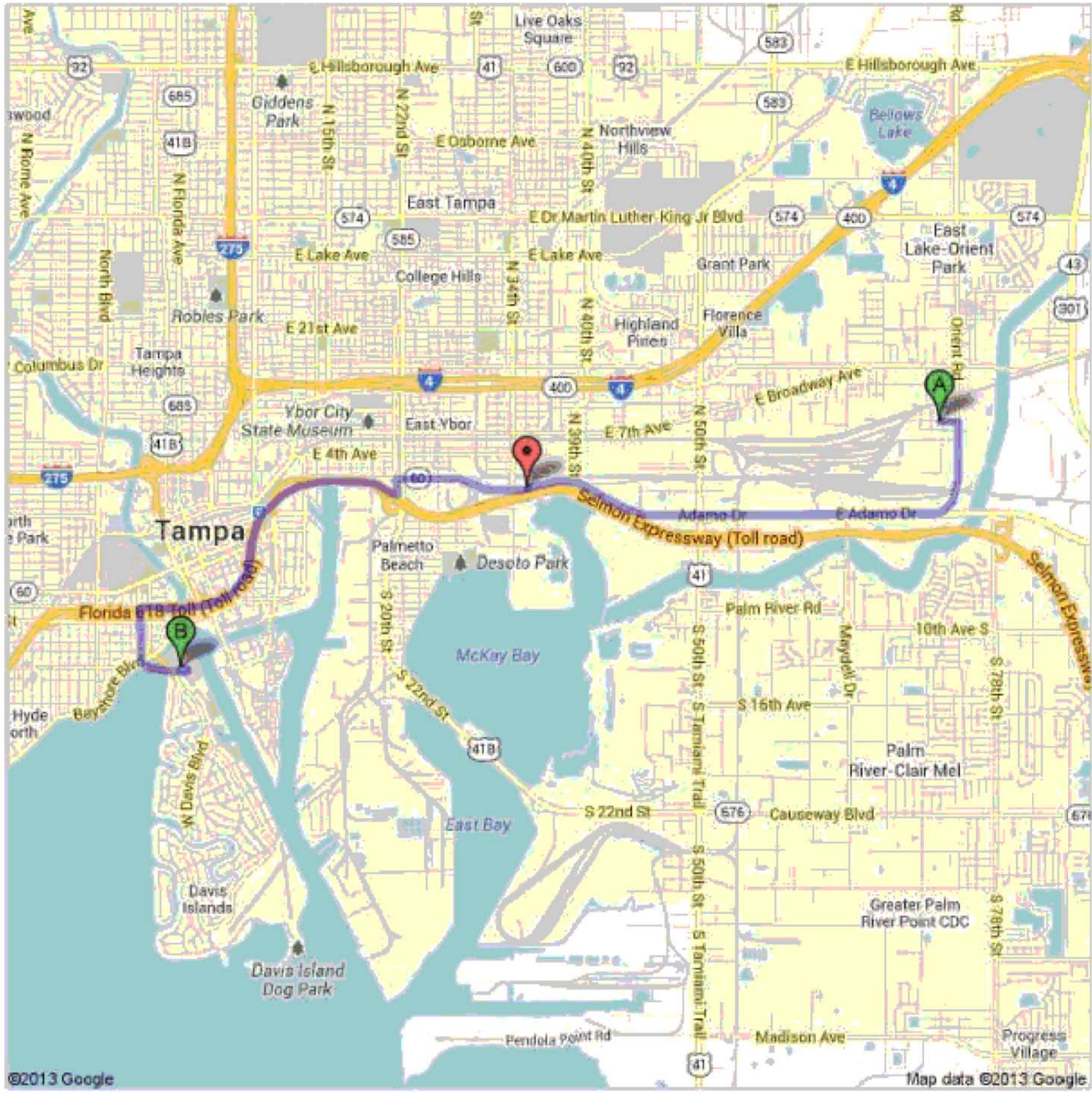




**A** 7202 E 8th Ave, Tampa, FL 33619

1. Head **east** on **E 8th Ave** toward **N 72nd St**  
go 0.1 mi  
total 0.1 mi
2. Turn **right** onto **Orient Rd**  
About 3 mins  
go 0.7 mi  
total 0.8 mi
3. Turn **left** onto **FL-60 E/E Adamo Dr**  
Continue to follow **FL-60 E**  
About 10 mins  
go 5.7 mi  
total 6.5 mi
4. Turn **right** onto **S Parsons Ave**  
go 0.2 mi  
total 6.7 mi
5. Take the **2nd right** onto **Oakfield Dr**  
Destination will be on the left  
go 0.2 mi  
total 6.9 mi

**B** **Brandon Regional Hospital**  
119 Oakfield Dr, Brandon, FL 33511



**A** 7202 E 8th Ave, Tampa, FL 33619

1. Head **east** on **E 8th Ave** toward **N 72nd St**  
go 0.1 mi  
total 0.1 mi
2. Turn **right** onto **Orient Rd**  
About 2 mins  
go 0.6 mi  
total 0.8 mi
3. Take the **3rd right** onto **E Adamo Dr**  
About 7 mins  
go 3.8 mi  
total 4.6 mi
4. Turn **left** onto **N 21st St**  
About 1 min  
go 495 ft  
total 4.7 mi
5. Turn **right** onto the **Florida 618 West Toll** ramp to **St Petersburg**  
Toll road  
About 45 secs  
go 0.3 mi  
total 4.9 mi
6. Merge onto **Selmon Expressway**  
Toll road  
About 2 mins  
go 1.8 mi  
total 6.7 mi
7. Take **exit 5** toward **Hyde Park Ave/Davis Islands**  
Toll road  
go 0.2 mi  
total 6.8 mi
8. Merge onto **W Brorein St**  
go 381 ft  
total 6.9 mi
9. Turn **left** onto **S Hyde Park Ave**  
About 2 mins  
go 0.3 mi  
total 7.2 mi
10. Take the **exit** toward **Tampa General Cir**  
About 46 secs  
go 0.2 mi  
total 7.4 mi
11. Keep **left** at the fork, follow signs for **Tampa General Hospital**  
go 0.1 mi  
total 7.6 mi
12. Keep **left** at the fork, follow signs for **Emergency/Physician Parking** and merge onto **Tampa General Cir**  
go 194 ft  
total 7.6 mi
13. Turn **left** to stay on **Tampa General Cir**  
go 85 ft  
total 7.6 mi
14. Turn **left** to stay on **Tampa General Cir**  
Destination will be on the right  
go 233 ft  
total 7.7 mi

**B** **Tampa General Hospital**  
1 Tampa General Cir, Tampa, FL 33606

PROJECT No.		FIGURE	
2018-1133		8 of 8	
ROUTES TO HOSPITAL		DESCRIPTION	
US ECOLOGY TAMPA, INC.		DATE	
7202 EAST EIGHTH AVENUE		REV.	
TAMPA, FL 33619		SCALE: 1/8" = 1'	
PACSCON GEOTECHNICAL, INC.		DATE: 10/2018	
2019 OSPREY LANE		DATE: 10/2018	
LUTZ, FL 33549		DATE: 10/2018	
ENGINEERING CERTIFICATION OF AUTHORIZATION: 32162		DATE:	
PHONE: (813) 583-0440 E-MAIL: INFO@PACSCON.COM		USE TO VERIFY FIGURE	
PACSCON GEOTECHNICAL, INC.		THIS DRAWING REPRESENTS ONE COPY OF THE ORIGINAL DRAWING	



## **APPENDIX A**

### ***Emergency Contact List***



**US ECOLOGY TAMPA**  
**EMERGENCY CONTACT PERSONNEL / RESPONSE AGENCIES AND ORGANIZATIONS**

*\*Dial 9 to get an outside line from any office phone*

**7202 East 8th Avenue  
Tampa, Florida 33619  
(813) 623-5302 (During Business Hours)  
(800) 624-5302 (24 Hours)  
EPA ID #FLD 981 932 494**

<b>PRIMARY EMERGENCY COORDINATOR</b>	<b>EMERGENCY MEDICAL SERVICES</b>
Don Locke 813-319-3410 (office) 813-347-3484 (cell)	EMS: 911 Brandon Hospital: 813-681-5551 Tampa General Hospital: 813-844-7000 COMBI Occupational Medicine: 813-246-4277 (During Business Hours)
<b>SECONDARY EMERGENCY COORDINATOR</b>	<b>GOVERNMENTAL AGENCIES</b>
Ken Dean 813-319-3433 (office) 813-748-4403 (cell)	National Response Center: 800-424-8802 (24 Hours) State of Florida Warning Point: 800-320-0519 (24 Hours) Florida DEP: 850-245-8705 (During Business Hours) Florida DEP Southwest District: 813-470-5700 (During Business Hours) Hillsborough County EPC: 813-627-2600 (During Business Hours) U.S. Coast Guard: 305-415-6820 (Spill to Navigable Waters)
<b>TERTIARY EMERGENCY COORDINATOR</b>	US Environmental Protection Agency: 404-562-8700 (During Business Hours) US Environmental Protection Agency: 404-562-8705 (24 Hours) Poison Control Center: 800-222-1222 (24 Hours)
Macho Cruz 813-319-3419 (office) 734-752-5247 (cell)	<b>FIRE, POLICE, SHERIFF</b>
<b>CORPORATE MARKETING DIRECTOR</b>	Tampa Fire Department: 911 or 813-232-6800 Tampa Police Department: 911 or 813-231-6130 Florida Highway Patrol: 911 or 813-632-6859 Hillsborough County Sheriff's Office: 911 or 813-247-8200
Dave Crumrine 734-521-8032 (office) 734-845-8410 (cell)	<b>OTHER CONTACTS</b>
<b>ELECTRIC, GAS, &amp; WATER UTILITIES</b>	City of Tampa - Storm Water: 813-259-1693 (During Business Hours)
Tampa Electric Co. (TECO): 877-588-1010 (24 Hours) City of Tampa Utilities (Water): 813-274-7400 (24 Hours)	
<b>OUTSIDE RESPONSE CONTRACTOR</b>	
National Response Corporation: 800-899-4672 (24 Hours)	

## **APPENDIX B**

### ***EPA Region 4 Hurricane Preparedness Guidelines***



Related Topics: [Natural Disasters](#)

[CONTACT US](#)

SHARE



# Hurricanes

**ALWAYS CALL 911** if you are in immediate danger and need emergency help.

EPA information for protecting health and the environment:

- [Prepare for a hurricane](#) - things you can do to get ready to minimize health or environmental dangers or expected problems.
- [Recover from a hurricane](#) - safety with generators, flooding, mold cleanup, managing debris, and more, for homes, schools, and facilities
- [Current storm forecast, from NOAA](#)

Information about EPA's response:

- [Hurricane Response](#) - fact sheets and information
- [EPA's emergency response capabilities](#) - general information



- [General Preparedness Information](#)
- [Drought](#)
- [Earthquakes](#)
- [Extreme Heat](#)
- [Flooding](#)
- [Hurricanes](#)
- [Snow & Ice](#)
- [Tornadoes](#)
- [Tsunamis](#)
- [Volcanoes](#)
- [Wildfires](#)
- [en español](#)

## Prepare for a hurricane

See also: [Flooding](#)

Make any preparations that can minimize injury and property damage. Households, utilities, and businesses should plan for disaster before hurricane season starts, or make any possible preparations when a

Related info

hurricane is predicted.

## Drinking water:

- [Make a kit of supplies](#). Keep at least a 3-day water supply per person and for pets, too. [What you can do to protect your household well](#).

## Water and wastewater systems

- [Activities to help water facilities plan for emergencies and natural disasters](#).
- [Water resiliency planning tools](#) for communities.

## Planning for disaster debris:

Damage from a hurricane depends on the size, extent, and other factors. Damage debris can include destroyed structures, hazardous waste, green waste, or personal property. [More about disaster debris planning](#)

This guide highlights the need for communities to plan ahead for debris cleanup after a major natural or man-made disaster, plus case studies. [Read a printable version](#).

## Chemical or fertilizer storage:

[Properly designed or modified storage facilities](#) enhance worker safety and minimize the risk contamination.

Summary of regulatory requirements related to shutdown operations - For complex industrial processes, shutdown operations require special care beyond normal operations. Facility owners and operators are required to minimize chemical releases during process shutdown operations; and if reportable releases occur, they must be reported immediately upon constructive knowledge of occurrence. Read more about applicable regulations: [Reminder to minimize process shutdown-related releases and report releases in a timely manner](#).

- National Weather Service: [Hurricane Outlook](#)
- Ready.gov: [Prepare for a hurricane](#)

[Top of Page](#)



# Recover after a hurricane

**ALERT:** Generator exhaust is toxic. Always put generators outside well away from doors, windows, and vents. Never use a generator inside homes, garages, crawlspaces, sheds, or similar areas. Carbon monoxide (CO) is deadly, can build up quickly, and linger for hours. [More information.](#)

See also: [Flooding](#)

## Report suspected spills, contamination or possible violations.

- To report oil, chemical, or hazardous substance releases or spills, call the National Response Center 800-424-8802.
- Report a suspected environmental violation on [EPA's reporting page](#).

## Flooding

- **Limit contact with flood water.** Flood water may have high levels of raw sewage or other hazardous substances. Early symptoms from exposure to contaminated flood water may include upset stomach, intestinal problems, headache and other flu-like discomfort. Anyone experiencing these and any other problems should immediately seek medical attention.
- **[What do I do about water from household wells after a flood?](#)** Do not turn on the pump due to danger of electric shock. Do not drink or wash with water from the flooded well until it is tested and safe to use. [Read more about household wells.](#)
- **[What do I do with my home septic system after a flood?](#)** Do not use the sewage system until water in the soil absorption field is lower than the water level around the house. If you have a home-based or small business and your septic system has received chemicals, take extra precautions to prevent contact with water or inhaling fumes. Proper clean-up depends on the kinds of chemicals in the wastewater. [Read more](#)
- **[For water and wastewater facilities:](#)** Suggested post-hurricane activities to help facilities recover.

## Mold

- **[Mold cleanup:](#)** Mold can cause serious health problems. The key to mold control is moisture control. After the flood, remove standing water and dry indoor areas. Remove and discard anything that has been wet for more than 24-48 hours.
- [Mold cleanup in schools and commercial buildings.](#) Information for building managers, custodians, and others who are responsible for commercial building and school maintenance.
- [Basic mold hazards.](#) [Cleaning up mold.](#) [What to wear](#)
- [More about mold](#) from Centers for Disease Control

## Drinking water

- To kill all major water-borne bacterial pathogens, **bring water to a rolling boil for 1 full minute.** Boil 3 minutes at elevations above 5280 ft (1 mile or 1.6 km). More information about [emergency disinfection of drinking water.](#)
- [Drinking Water Emergency Incident Information](#)

## Home or facilities wastewater

Pesticides, chemical and oil spills, hazardous waste:

- Call the National Response Center 1-800-424-8802 (24 hours a day every day). For those without 800 access, please call 202-267-2675.
- Industries and businesses that encounter spills or discharges in the aftermath should contact the National Response Center immediately. You or your organization may have legal requirements for reporting or for taking other actions, depending on the spill.
- National Pesticide Information Center: 1-800-858-7378. [Pesticide contacts](#)
- [Report spills or environmental violations](#)

## Managing debris

Disasters can generate tons of debris, including building rubble, soil and sediments, green waste (e.g., trees and shrubs), personal property, ash, and charred wood. How a community manages disaster debris depends on the debris generated and the waste management options available.

Burying or burning is no longer acceptable, except when permission or a waiver has been granted, because of the side effects of smoke and fire from burning, and potential water and soil contamination from burial.

Typical methods of recycling and solid waste disposal in sanitary landfills often cannot be applied to disaster debris because of the large volume of waste and reluctance to overburden existing disposal capacity.

- [Managing Debris After a Natural Disaster](#) - a fact sheet with guidelines to help make for a speedier removal process.
- [General information on disaster debris](#) - planning for and management of debris is an essential but often overlooked component of an emergency response or disaster incident.

[Top of Page](#)

## Renovation and rebuilding

**Lead-safe work:** By law, contractors need to use lead-safe work practices on emergency renovations on homes or buildings built before 1978.

Activities such as sanding, cutting, and demolition can create lead-based paint hazards. Lead-contaminated dust is harmful to adults, particularly pregnant women, and children.

- [Important information about post-disaster renovations and lead-based paint](#)
- [Ways to protect against lead-based paint hazards](#)

**Asbestos:** Anyone working on demolition, removal, and cleanup of building debris needs be aware of any asbestos and to handle asbestos materials properly. People exposed to asbestos dust can develop serious lung health problems including asbestosis, lung cancer and mesothelioma. Although the use of asbestos has dramatically decreased in recent years, it is still found in many residential and commercial buildings and can pose a serious health risk.

- [More about the dangers of exposure to asbestos](#)
- [Asbestos Standard for the Construction Industry, from OSHA](#)

[Top of Page](#)

## **APPENDIX C**

### ***Supplemental Emergency & Safety Equipment***

**US ECOLOGY TAMPA, INC.**

**SUPPLEMENTAL EMERGENCY AND SAFETY EQUIPMENT\***

1. Hand-Held Air Horns (5)
2. Telephones (1)
3. Emergency Lights (6)
4. Pull Alarms (7)
5. Fire Extinguishers (20)
6. Emergency Exits (6)
7. Containment Sumps (5)
8. Spill Kits (Acid, Alkaline, Solvent) (1 each)
9. Fire Hoses (4)
10. Safety Equipment Cabinets (2)
11. UV Smoke and Flame Detectors (3)
12. Heat Sensors (4)
13. LEL Sensors (2)
14. LEL Meter (1)
15. SCBA Respirator (2)
16. Eye Washes (3)
17. Safety Shower (3)
18. Sprinkler Systems (2)
19. Foam System (1)
20. Intrusion Alarm System (1)
21. Fire Alarm System (2)
22. CO2 Suppression System (1)

\*Supplemental emergency and safety equipment that may not be specifically referenced in the Facility PPP/CP

## **APPENDIX D**

### ***Standard Operating Procedures***



---

### ***Standard Operating Procedure (FL)***

---

Document Number:	LAB-OP-008-FLA	Issue Date:	12/3/07
Approving Authority:	Shane Walker	Revision Date:	11/9/16
Job Title:	Lab Technician	Department:	LAB
		Review Date:	12/7/17

---

**TITLE:**        **Facility Waste Sampling**

**PURPOSE:** To ensure all incoming containers are properly marked and a representative sample is collected from each container.

**SCOPE:** This procedure applies to US Ecology Tampa offices and jobsites.

---

#### **RESPONSIBILITIES:**

Operations Manager:

The Operations Manager is responsible for ensuring the success of this procedure and for all operations under his control.

The Operations Manager or his/her designee shall monitor the employees periodically to ensure they provide their employees with sufficient training and equipment to allow them to both understand and comply with this procedure.

QEHS Manager:

The QEHS Manager is responsible for providing technical information and ensuring a safe and healthy working environment.

Employees:

Employees are responsible for compliance with the requirements of this procedure.

---

#### **DEFINITIONS:**

---

#### **PROCEDURE:**

*The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.*



- 1.0 Proceed to sampling area with sampling cart and set-up area (be sure drums are diked and separate from incompatibles and appropriate signs are in place per the permit requirements).
- 2.0 Prepare sample jars by placing one on each drum to be sampled. Mark sample lids and jars with LAB number, DOT hazard class, DATE sampled, and sampler's initials.
- 3.0 Put on appropriate safety equipment (**Level C**). Respiratory protection must be worn when opening any container.
- 4.0 Visually inspect the drums for integrity and proper RCRA, DOT and non-regulated labeling. Document container types and count for any discrepancies.
- 5.0 **Liquid and sludge sample:**
  - 5.1 Open the drum carefully, and slowly insert the sampling tube vertically until it reaches the bottom of the liquid portion.
  - 5.2 Cover the top of the tube with the thumb and form a vacuum, and carefully withdraw the tube.
  - 5.3 Collect the sample and drain the contents into a sample container.
  - 5.4 When sampling evacuated aerosol liquid drums, open bung(s) slowly and allow drum to vent at least 10 minutes. Use a self-filling ColiWasa, to prevent possible back pressure. Collect sample and let contents drain into sample container.
- 6.0 **Solid sample:**
  - 6.1 Open the drum, dig down at least two inches and take a sample.
- 7.0 If the drum contains liquids and solid parts, check the percent solid and liquid using the sampling tube and obtain the percent solids by sampling the bottom of the drum. The amount of solids and liquid portions should be described in inches.

- 8.0 Composite samples will be prepared in the drum area from the individual drum samples. Composites will be composed of individual samples, not to exceed 10 sub-samples per composite.
- 9.0 Poison drums will not be analyzed in our QC lab until a separate system is established. Poison drums should be opened and inspected and checked using a pH test strip.
- 10.0 Close container immediately after sampling.
- 11.0 Bring the samples and receiving report to the lab and notify lab personnel of any discrepancies upon delivery of samples.
- 12.0 Place drums in their appropriate storage location according to hazard class and remove sampling signs.
- 13.0 If any problems or questions arise, contact your supervisor or the Lab Manager immediately.
- 14.0 DO NOT START TO BULK / OR LOAD ANY DRUM WITHOUT THE APPROVAL OF THE LAB MANAGER OR FACILITY MANAGER.
- 15.0 In the event a modification from the above procedure is requested, the Laboratory Manager or the Facility Manager must approve it.
- 16.0 All samplers using the above procedure must be trained and documented by the Lab Manager or the Facility Manager, or an experienced trainer as designated by the Laboratory Manager.
- 17.0 If sampling a Tanker, Sludge Box, Vacuum Truck, following above procedure except use a core auger sampler for the taking the sample.
- 18.0 The following waste types will receive a visual inspection only:

*The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.*

- 18.1 Propane Cylinders
- 18.2 Other gas Cylinders
- 18.3 Aerosol Cans
- 18.4 State of Florida Universal Waste
- 18.5 Labpacks
- 18.6 PCB Waste

19.0 Samples that fail QC will be put on hold in EQAI.

The EQAI Post Inspection Sheet will be used to verify that each receipt/approval is sampled in accordance with this procedure.

---

**REFERENCES:**

**ASSOCIATED DOCUMENTS:**

**RECORDS:** The cited records are retained in a manner that supports the requirements of the various local, State, and federal regulatory agencies to which USecology adheres.

**History of SOP Revisions:**

Date	Approver	Change	Training required	
			Yes	No
11/9/16	SW	Changed Document Format Changed Plant Manager Operations Manager		X
12/7/17	SW	Changed review date		X

*The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.*



---

### ***Standard Operating Procedure (FL)***

---

Document Number:	LAB-OP-012-FLA	Issue Date:	12/6/07
Approving Authority:	Shane Walker	Revision Date:	11/9/16
Job Title:	Lab Technician	Department:	Lab
		Review Date:	

---

**TITLE:**       **Hazcat Procedures**

**PURPOSE:** To properly and safely identify hazard class information on unknown chemicals.

**SCOPE:** This procedure applies to US Ecology Tampa offices and jobsites.

---

#### **RESPONSIBILITIES:**

Operations Manager:

The Operations Manager is responsible for ensuring the success of this procedure and for all operations under his control.

The Operations Manager or his/her designee shall monitor the employees periodically to ensure they provide their employees with sufficient training and equipment to allow them to both understand and comply with this procedure.

QEHS Manager:

The QEHS Manager is responsible for providing technical information and ensuring a safe and healthy working environment.

Employees:

Employees are responsible for compliance with the requirements of this procedure.

---

#### **DEFINITIONS:**

---

#### **PROCEDURE:**

*The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.*

## 1.0 pH Test

- 1.1 Introduce a drop of sample onto a pH strip
- 1.2 Compare to the pH chart to obtain the unknown.

## 2.0 Oxidizer Test

- 2.1 Wet a Potassium Iodide starch paper with one drop of 3N HCl
- 2.2 Add one drop of the sample onto the starch paper.
- 2.3 If the paper turns **purple-black**, oxidizer is present.

## 3.0 Sulfide Test

- 3.1 Wet a Lead Acetate starch paper with one drop of 1:1 HCl
- 3.2 Add one drop of the sample onto the starch paper.
- 3.3 If the paper turns **brown- black**, sulfide is present

## 4.0 Cyanide Test

- 4.1 Place 5 drops of sample into a small test tube.
- 4.2 Add 5 drops of CN Reagent #1.
- 4.3 Add 5 drops of CN Reagent #2.
- 4.4 Add 5 drops of CN Reagent #3.
- 4.5 Gently, shake the test tube and let it stand for 10 seconds.
- 4.6 A color change to **pink or red** indicates the present of cyanide.

## 5.0 Ignition Potential (Flash Point)

- 5.1 Introduce 2 ml of sample into an aluminum disc.
- 5.2 Light up a burner or flame source and hold the flame immediately above the test sample without touching the visible flame to the sample for at least 10 seconds.
- 5.3 If the sample ignites, the flammability is reported as positive.

## 6.0 Mercury Test

- 6.1 Add few drops of sample onto aluminum disc.
- 6.2 Remove a red cap from a MercuryCheck Swabs.
- 6.3 Crush swab in center of paper sleeve.
- 6.4 Squeeze until fluid shows on tip.
- 6.5 Rub test area approximately 30 seconds.
- 6.6 If the tip turns **purple**, mercury is present.

## 7.0 Cadmium Test

- 7.1 Add few drops of sample onto aluminum disc.

*The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.*

- 7.2 Crush at "A" and "B" of Cadmium Check Swabs.
- 7.3 Squeeze until purple shows on tip.
- 7.4 Rub test area approximately 30 seconds.
- 7.5 If the tip turns **Peach**, Cadmium is present.

#### 8.0 Silver Test

- 8.1 Obtain one silver strip from Silver Roll.
- 8.2 Immerse the reaction zones of the test strip in the solution for one second.
- 8.3 Shake off the excess liquid and compare with the color scale after 30 seconds.

#### 9.0 Iron Test

- 9.1 Obtain one Iron strip from Iron Roll.
- 9.2 Immerse the reaction zone in the solution (1-7) for 1 sec.
- 9.3 Shake off excess liquid from the strip.
- 9.4 Wait 10 seconds, compare with the color scale, and read off result.

#### 10.0 Chlorine Test

- 10.1 Obtain one chlorine paper from Chlorine Test Roll.
- 10.2 Dip about one inch of a test paper in the water to be tested and remove immediately.
- 10.3 The color turns purple, chlorine is present.

#### 11.0 Peroxide Test

- 11.1 Obtain one peroxide strip from Peroxide Test Roll.
- 11.2 Immerse the reaction zone in the solution for 1 second.
- 11.3 Shake off excess liquid from the strip.
- 11.4 Compare the color scale after 15 seconds.

#### 12.0 Solubility Test

- 12.1 Add 5 drops of sample into a test tube.
- 12.2 Add 5 drops of DI water into the same test tube.
- 12.3 Mix thoroughly and let it sit for 30 seconds.
- 12.4 If one layer formed, then it is soluble. If there is more than one layer, then the sample is not soluble in water.

#### 13.0 Classifying DOT Classes

- 13.1 Performing a pH test on an unknown, if pH is <2.5 or >12.5, give D002 code.

*The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.*

- 13.2 Perform ignition Potential test, if positive then give an unknown a D001 code.
- 13.3 If negative then go on for metals test and perform all strip metals

---

**REFERENCES:**

**ASSOCIATED DOCUMENTS:**

**RECORDS:** The cited records are retained in a manner that supports the requirements of the various local, State, and federal regulatory agencies to which USecology adheres.

**History of SOP Revisions:**

Date	Approver	Change	Training required	
			Yes	No
11/9/16	Shane Walker	1. Revised Document Format 2. Changed Plant Manager Operations Manager		X

*The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.*





2019 Osprey Lane  
Lutz, Florida 33549  
T | (844) 7-PACSCON  
P | (813) 563-0440  
F | (813) 563-0440  
E | [info@pacskon.com](mailto:info@pacskon.com)

[www.pacskon.com](http://www.pacskon.com)