



Commodity Flow Study Components

UTILIZING CAMEODM & EXISTING DATA OUTPUTS TO CREATE
COMMODITY PRE-INCIDENT PLANNING

Acknowledgements

- ▶ Mystic REPC: Leadership, Members
- ▶ EPA Region 1
- ▶ MEMA
- ▶ Mike Castro
- ▶ EPA/NOAA CAMEO Development

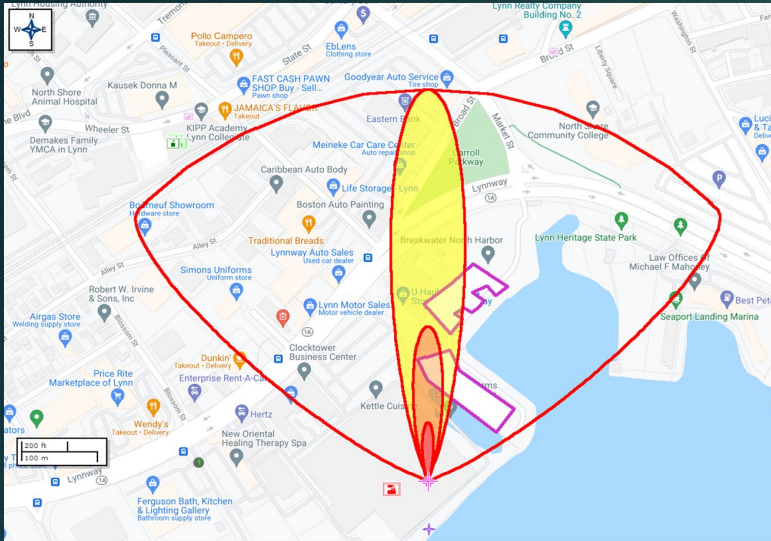
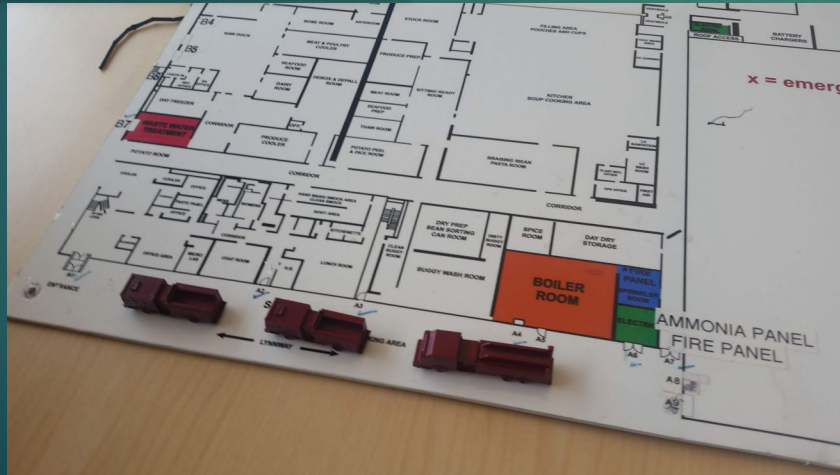


NH3 & Severe Storm Emergency Response Tabletop Exercise

OPERATION CATASTROPHE

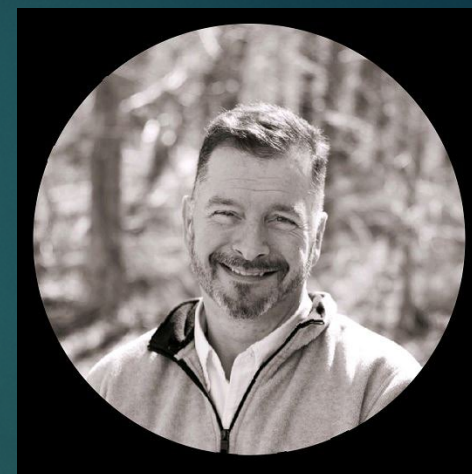


Region 1
NH3
Emergency Response Tabletop Exercise



E. Stefan Coutoulakis

- ▶ RICAMEO@aol.com
- ▶ Involved with Emergency Services since August 1984
- ▶ Captain, EGFD (ret.): HMO
- ▶ EMD Town of Exeter, RI since 2010
- ▶ Adjunct Instructor for NCBRT 2007, RIFA HAZMAT 1986
- ▶ CAMEO Database Instructor/Developer 1996
- ▶ ESC Training, LLC 2012



Why are we here?

- ▶ We were part of a study in R.I.
 - ▶ It did not make sense
 - ▶ The data was not pertinent
 - ▶ There was no format for Planners and First Responders to utilize information



It became a “plan on the shelf”

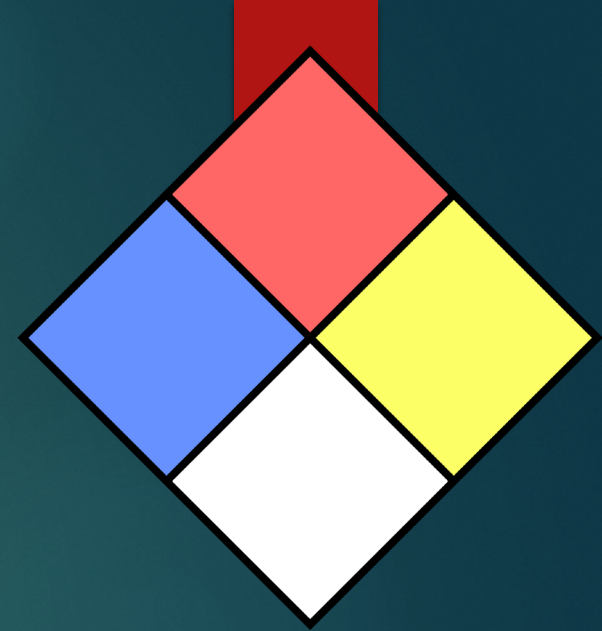
Place Plans here



A plan not tested is not a plan. It is a theory

BREAKING NEWS!!!!!!

- ▶ Every facility maintaining a hazardous material inventory will be providing:
 - ▶ Site Data
 - ▶ Inventory Amounts and storage Locations
 - ▶ Site Plans, SDS, Plans, and/or additional data requested by first responders
 - ▶ 24-Hour Phone Numbers
 - ▶ Routes from the nearest interstate to a facility.
 - ▶ Updating records annually or as needed



Current CAMEO Suite:

- [CAMEO Chemicals 2.8.0 released \(April 2022\)](#)
- [Tier2 Submit 2021 released \(Dec 2021\)](#)
- [CAMEO Data Manager 4.1.0 released \(Dec 2021\)](#)
- [MARPLOT 5.1.1 released \(Dec 2017\)](#)
- [ALOHA 5.4.7 released \(Sept 2016\)](#)

You will need:

Cameo Chemicals: 500 MG

Tier2 Submit 2021: 178 MG

CAMEODM: 180 MG

MARPLOT: 510 MG

ALOHA: 17 MG

Total Program Space for installation: **1.4 Gig**

Open CAMEOdm

CAMEO Data Manager 4.0							
Facilities Contacts Chemical Inventory Incidents Special Locations Routes Resources MAPLOT							
Search Listing all Facilities							
+ Buildings People Chemicals Incidents Routes Resources Maps 40,924 Facilities < Page 1 of 41 > ...							
Rep. Year	Facility Name	City	County	Address	State	Zip	
<input type="checkbox"/> 2020	Amtrak Bradford Paralleling Station	Westerly	Washington	99 North Main Street	RI	02808	🔗
<input type="checkbox"/> 2020	Amtrak Exeter Paralleling Station	Exeter	Washington	Off of Slocum Road	RI	02874	🔗
<input type="checkbox"/> 2020	Amtrak Kingston Paralleling Station	South Kingstown	Washington	Off of Great Neck Road	RI	02892	🔗
<input type="checkbox"/> 2020	Amtrak Richmond Switching Station	Richmond	Washington	547 Switch Road	RI	02832	🔗
<input type="checkbox"/> 2020	Anvil International, LLC	North Kingstown	Washington	160 Frenchtown Road	RI	02852	🔗
<input type="checkbox"/> 2020	Ashaway Line & Twine Mfg. Co.	Hopkinton	Washington	24 Laurel Street, Ashaway	RI	02804	🔗
<input type="checkbox"/> 2020	Ashaway Line & Twine Mfg. Co.	Hopkinton	Washington	9 Laurel Street, Ashaway	RI	02804	🔗
<input type="checkbox"/> 2020	AT&T - SHANNOCK RD - RI0340	South Kingstown	Washington	295 SHANNOCK RD	RI	02879	
<input type="checkbox"/> 2020	AT&T AVONDALE - USID60073	WESTERLY	Washington	25 WELLS ST	RI	02891	
<input type="checkbox"/> 2020	Block Island Utility District	New Shoreham	Washington	100 Ocean Avenue	RI	02807	
<input type="checkbox"/> 2020	Cargill Meat Solutions	North Kingstown	Washington	60 Compass Circle	RI	02852	
<input type="checkbox"/> 2020	CenturyLink - Richmond	Richmond	Washington	399 Church Street	RI	02894	
<input type="checkbox"/> 2020	Copart Inc	Exeter	Washington	10 Industrial Dr	RI	02822	🔗
<input type="checkbox"/> 2020	Cox Communications- Exeter STC	Exeter	Washington	843/843A Slocum Road	RI	02874	
<input type="checkbox"/> 2020	Cox Communications- Richmond STC	Richmond	Washington	429 Church Street	RI	02836	
<input type="checkbox"/> 2020	DARLINGTON FABRICS-BEACH STREET PLANT	WESTERLY	Washington	36 BEACH STREET	RI	02891	🔗
<input type="checkbox"/> 2020	DARLINGTON FABRICS-CANAL STREET PLANT	WESTERLY	Washington	48 CANAL STREET	RI	02891	🔗
<input type="checkbox"/> 2020	DEVELOPMENT ASSOCIATES INC.	NORTH KINGSTOWN	Washington	300 OLD BAPTIST RD.	RI	02852	🔗
<input type="checkbox"/> 2020	Frank Hall Boatyard	Westerly	Washington	3 India Point Road	RI	02891	🔗
<input type="checkbox"/> 2020	Hayward Industries, Inc.	North Kingstown	Washington	61 Whitecap Dr.	RI	02852	🔗
<input type="checkbox"/> 2020	Heritage Concrete Corporation	Exeter	Washington	535 South County Trail	RI	02822	🔗

Perform a search to filter results based upon: State, County, EHS, & Report Year

CAMEO Data Manager 4.0

Facilities Contacts Chemical Inventory Incidents Special Locations Routes Resources MAPLOT

Import Export Help

County contains characters ▼ washington

State is ▼ RI

(Chemicals) EHS is ▼ Yes

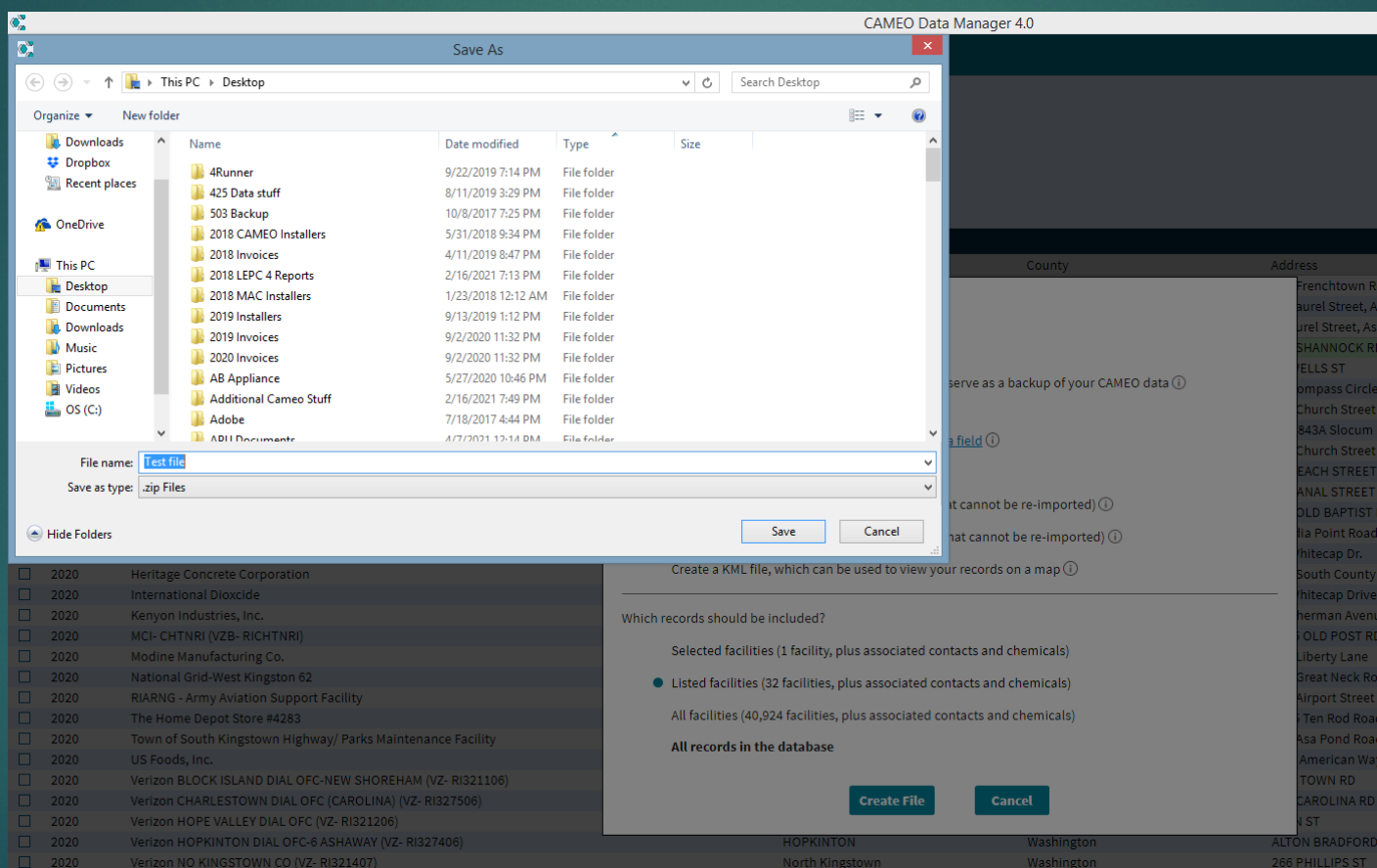
Report Year is equal to ▼ 2020

[View less...](#)

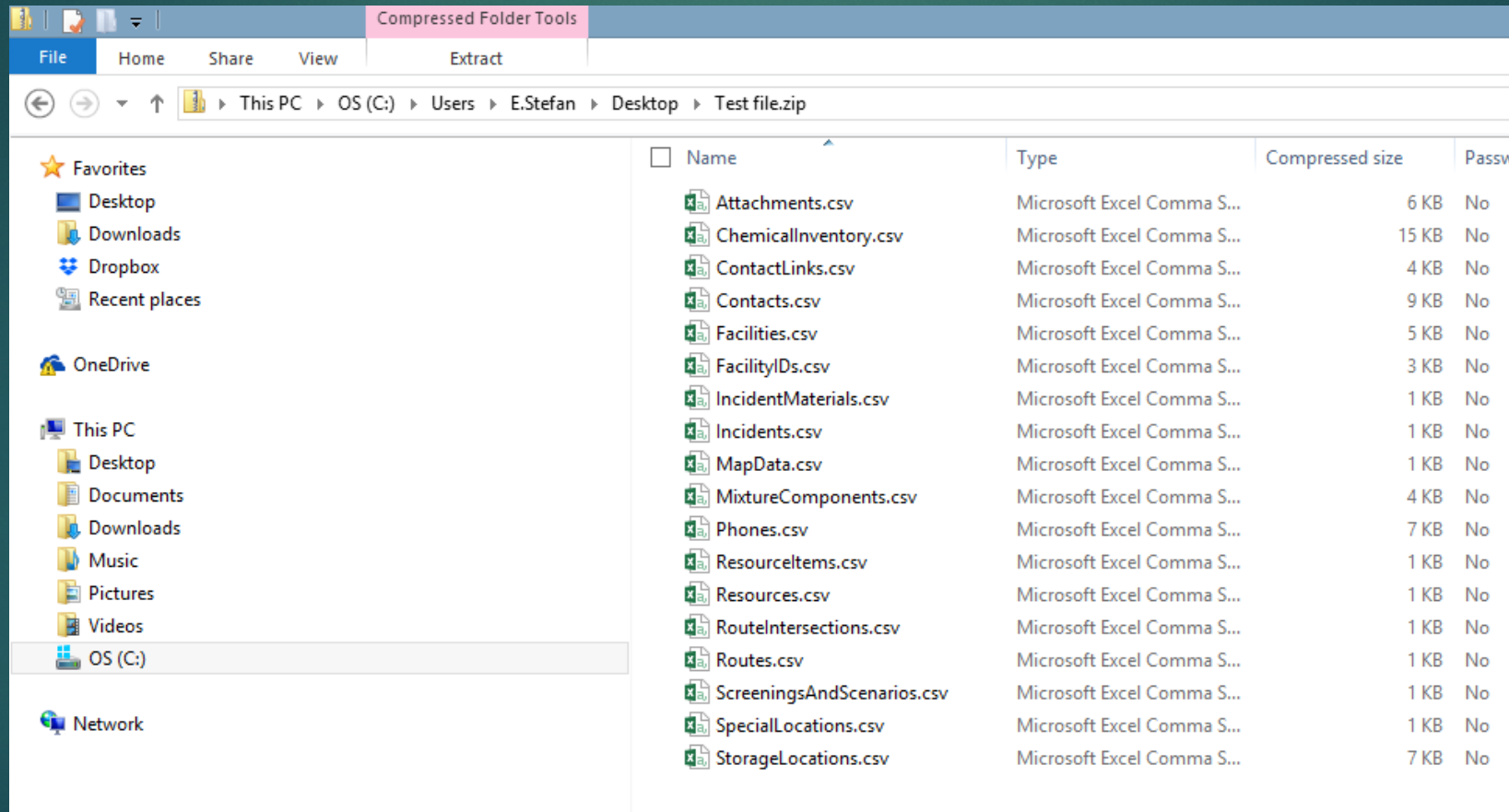
1 selected of 32 found Facilities < Page 1 of 1 >

Rep. Year	Facility Name	City	County	Address	State	Zip
<input type="checkbox"/>	2020 Anvil International, LLC	North Kingstown	Washington	160 Frenchtown Road	RI	02852
<input type="checkbox"/>	2020 Ashaway Line & Twine Mfg. Co.	Hopkinton	Washington	24 Laurel Street, Ashaway	RI	02804
<input type="checkbox"/>	2020 Ashaway Line & Twine Mfg. Co.	Hopkinton	Washington	9 Laurel Street, Ashaway	RI	02804
<input checked="" type="checkbox"/>	2020 AT&T - SHANNOCK RD - RI0340	South Kingstown	Washington	295 SHANNOCK RD	RI	02879
<input type="checkbox"/>	2020 AT&T AVONDALE - USID60073	WESTERLY	Washington	25 WELLS ST	RI	02891
<input type="checkbox"/>	2020 Cargill Meat Solutions	North Kingstown	Washington	60 Compass Circle	RI	02852
<input type="checkbox"/>	2020 CenturyLink - Richmond	Richmond	Washington	399 Church Street	RI	02894
<input type="checkbox"/>	2020 Cox Communications- Exeter STC	Exeter	Washington	843/843A Slocum Road	RI	02874
<input type="checkbox"/>	2020 Cox Communications- Richmond STC	Richmond	Washington	429 Church Street	RI	02836
<input type="checkbox"/>	2020 DARLINGTON FABRICS-BEACH STREET PLANT	WESTERLY	Washington	36 BEACH STREET	RI	02891
<input type="checkbox"/>	2020 DARLINGTON FABRICS-CANAL STREET PLANT	WESTERLY	Washington	48 CANAL STREET	RI	02891
<input type="checkbox"/>	2020 DEVELOPMENT ASSOCIATES INC.	NORTH KINGSTOWN	Washington	300 OLD BAPTIST RD.	RI	02852
<input type="checkbox"/>	2020 Frank Hall Boatyard	Westerly	Washington	3 India Point Road	RI	02891
<input type="checkbox"/>	2020 Hayward Industries, Inc.	North Kingstown	Washington	61 Whitecap Dr.	RI	02852
<input type="checkbox"/>	2020 Heritage Concrete Corporation	Exeter	Washington	535 South County Trail	RI	02822
<input type="checkbox"/>	2020 International Dioxide	North Kingstown	Washington	40 Whitecap Drive	RI	02852
<input type="checkbox"/>	2020 Kenyon Industries, Inc.	Richmond	Washington	36 Sherman Avenue	RI	02836
<input type="checkbox"/>	2020 MCI- CHTNRI (VZB- RICHTRNRI)	CHARLESTOWN	Washington	3945 OLD POST RD	RI	02813
<input type="checkbox"/>	2020 Modine Manufacturing Co.	South Kingstown	Washington	604 Liberty Lane	RI	02892
<input type="checkbox"/>	2020 National Grid-West Kingston 62	South Kingstown	Washington	360 Great Neck Road	RI	02852
<input type="checkbox"/>	2020 RIARNG - Army Aviation Support Facility	North Kingstown	Washington	104 Airport Street	RI	02852
<input type="checkbox"/>	2020 The Home Depot Store #4283	North Kingstown	Washington	1255 Ten Rod Road	RI	02852
<input type="checkbox"/>	2020 Town of South Kingstown Highway/ Parks Maintenance Facility	South Kingstown	Washington	134 Asa Pond Road	RI	02879
<input type="checkbox"/>	2020 US Foods, Inc.	North Kingstown	Washington	1 All American Way	RI	02852
<input type="checkbox"/>	2020 Verizon BLOCK ISLAND DIAL OFC-NEW SHOREHAM (VZ- RI321106)	NEW SHOREHAM	Washington	OLD TOWN RD	RI	02807
<input type="checkbox"/>	2020 Verizon CHARLESTOWN DIAL OFC (CAROLINA) (VZ- RI327506)	CHARLESTOWN	Washington	452 CAROLINA RD	RI	02813
<input type="checkbox"/>	2020 Verizon HOPE VALLEY DIAL OFC (VZ- RI321206)	HOPKINTON	Washington	MAIN ST	RI	02833
<input type="checkbox"/>	2020 Verizon HOPKINTON DIAL OFC-6 ASHAWAY (VZ- RI327406)	HOPKINTON	Washington	ALTON BRADFORD HWY	RI	02833
<input type="checkbox"/>	2020 Verizon NO KINGSTOWN CO (VZ- RI321407)	North Kingstown	Washington	266 PHILLIPS ST	RI	02852
<input type="checkbox"/>	2020 Verizon SO KINGSTOWN CO (VZ- RI321307)	South Kingstown	Washington	95 MAIN ST	RI	02879
<input type="checkbox"/>	2020 Verizon WESTERLY CO (VZ- RI327107)	WESTERLY	Washington	38 44 MAIN ST	RI	02891
<input type="checkbox"/>	2020 Verizon WESTERLY DIAL OFC (VZ- RI327306)	WESTERLY	Washington	56 WAWALOAM DRIVE	RI	02891

Export the resulting dataset to the desktop



Locate the file and “double-click” on it to show internal files



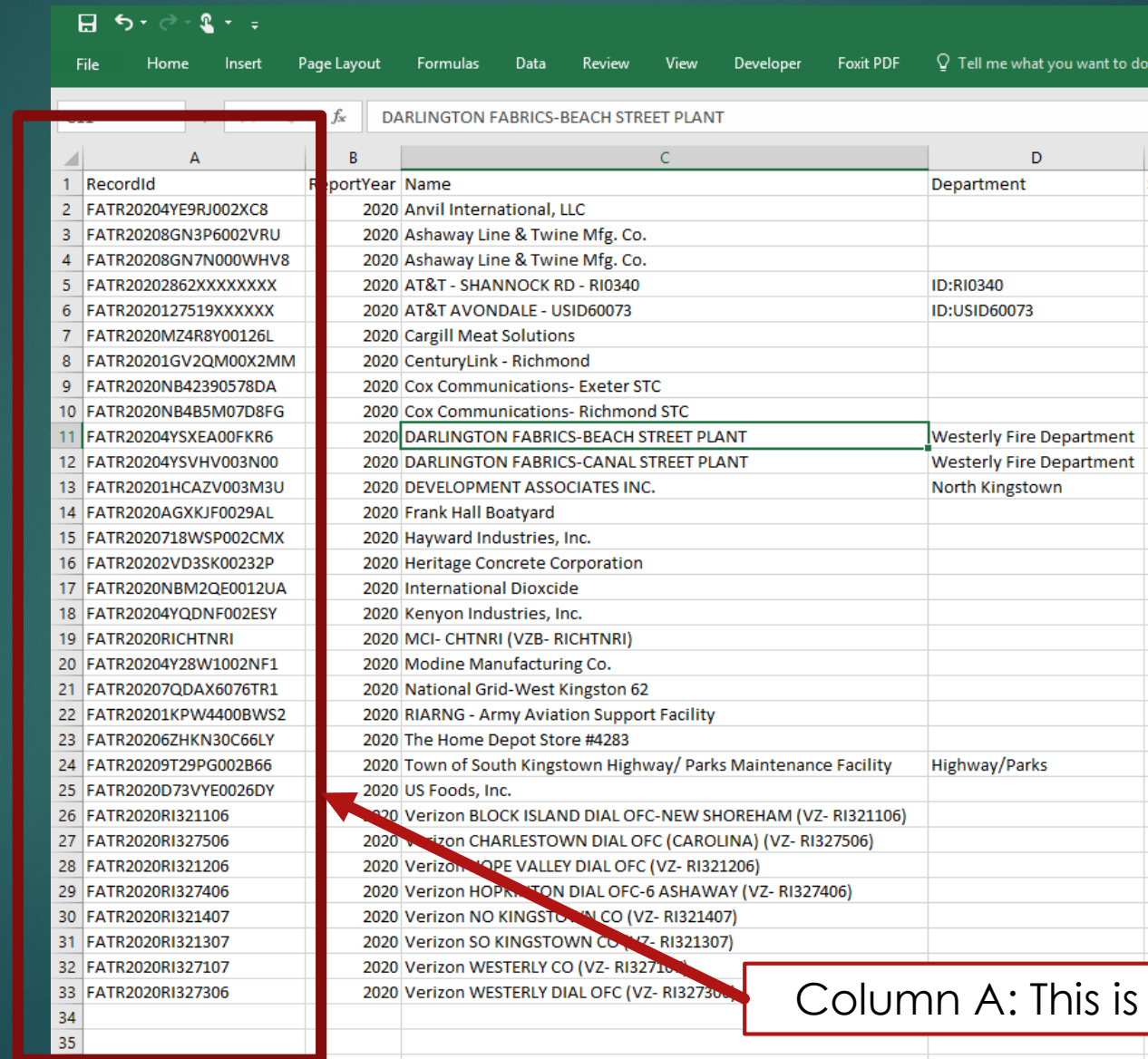
Find the file: Chemical in inventory.csv file

ChemicalInventory.csv [Read-Only] - Excel

File Home Insert Page Layout Formulas Data Review View Developer Foxit PDF Tell me what you want to do...															
A2															
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	
1	RecordId	ParentRecordId	CasNumber	Ehs	ChemicalName	TradeSecret	SDS	Pure	Mixture	Solid	Liquid	Gas	MaxDailyAmount	MaxDailyAmount	
2	CVTR20207R6CXK0099A9	FATR20204YE9RJ002XC8		FALSE	Performance Plus Hydraulic Oil AW 68	FALSE		FALSE	TRUE	FALSE	TRUE	FALSE	16817		
3	CVTR20209RYRR2001PEW	FATR20204YE9RJ002XC8		FALSE	A36 Steel	FALSE		FALSE	TRUE	TRUE	FALSE	FALSE	13895		
4	CVTR2020MNE1XR0037W2	FATR20204YE9RJ002XC8		TRUE	Batteries	FALSE		FALSE	TRUE	TRUE	FALSE	FALSE	12664		
5	CVTR2020NBK428002ZWP	FATR20204YE9RJ002XC8		FALSE	80 HPA Garnet Abrasive	FALSE		FALSE	TRUE	TRUE	FALSE	FALSE	22000		
6	CVTR20208GN4EV00E2WX	FATR20208GN3P6002VRU	68154175	FALSE	Ethanol	FALSE		FALSE	TRUE	FALSE	TRUE	FALSE	1000		
7	CVTR20208GN53X00H139	FATR20208GN3P6002VRU	68176313	FALSE	Fuel # 4	FALSE		FALSE	TRUE	FALSE	TRUE	FALSE	27626		
8	CVTR20208GN5EK00L8A6	FATR20208GN3P6002VRU	68108952	TRUE	Phenol	FALSE		FALSE	TRUE	FALSE	TRUE	FALSE	1356		
9	CVTR20208GN7YL015NR3	FATR20208GN7N000WHV8	68176313	FALSE	Fuel # 4	FALSE		FALSE	TRUE	FALSE	TRUE	FALSE	14540		
10	CVTR20208GN86C018DJZ	FATR20208GN7N000WHV8	68154175	FALSE	Ethanol	FALSE		FALSE	TRUE	FALSE	TRUE	FALSE	373.1		
11	CVTR2020B7TXL700GVDB	FATR20208GN7N000WHV8	68108952	TRUE	Phenol	FALSE		FALSE	TRUE	FALSE	TRUE	FALSE	1000		
12	CVTR2020CVTR2020286212XXXX	FATR20202862XXXXXXX	8108206	FALSE	KEROSENE	FALSE		TRUE	FALSE	FALSE	TRUE	FALSE	54480		
13	CVTR2020CVTR202028621XXXX	FATR20202862XXXXXXX	7154939	TRUE	SULFURIC ACID	FALSE		TRUE	FALSE	FALSE	TRUE	FALSE	8133		
14	CVTR2020CVTR202028624XXXX	FATR20202862XXXXXXX	7139921	FALSE	LEAD	FALSE		TRUE	FALSE	TRUE	FALSE	FALSE	68333		
15	CVTR2020CVTR2020127519XXXX	FATR2020127519XXXXXX	7154939	TRUE	SULFURIC ACID	FALSE		TRUE	FALSE	FALSE	TRUE	FALSE	521		
16	CVTR2020MZ4RGP00526Q	FATR2020MZ4R8Y00126L	7154417	TRUE	Anhydrous Ammonia	FALSE		TRUE	FALSE	FALSE	TRUE	TRUE	19000		
17	CVTR2020MZ57270104JH	FATR2020MZ4R8Y00126L		TRUE	Lead Acid Batteries-Lift Truck	FALSE		FALSE	TRUE	FALSE	TRUE	FALSE	42000		
18	CVTR2020MZT111001CQZ	FATR2020MZ4R8Y00126L	7157556	FALSE	propylene glycol	FALSE		TRUE	FALSE	FALSE	TRUE	FALSE	362		
19	CVTR2020N087X20051X4	FATR2020MZ4R8Y00126L	7127379	FALSE	Nitrogen-liquid	FALSE		TRUE	FALSE	FALSE	TRUE	FALSE	114064		
20	CVTR2020N08QH0081X7	FATR2020MZ4R8Y00126L	7132447	FALSE	Oxygen	FALSE		TRUE	FALSE	FALSE	TRUE	FALSE	142832		
21	CVTR2020N08QY200A1X9	FATR2020MZ4R8Y00126L	7124389	FALSE	Carbon Dioxide	FALSE		TRUE	FALSE	FALSE	FALSE	TRUE	60000		
22	CVTR20203HQ35P016JCG	FATR20201GV2QM00X2MM		TRUE	Battery	FALSE		FALSE	TRUE	TRUE	TRUE	FALSE	7900		
23	CVTR2020NB42P505F8DJ	FATR2020NB42390578DA	7139921	FALSE	LEAD	FALSE		TRUE	FALSE	TRUE	FALSE	FALSE	15426.24		
24	CVTR2020NB42VJ05J8DM	FATR2020NB42390578DA	7154939	TRUE	SULFURIC ACID	FALSE		TRUE	FALSE	FALSE	TRUE	FALSE	2316.32		
25	CVTR2020NB48D07M8FQ	FATR2020NB485M07D8FG	7139921	FALSE	LEAD	FALSE		TRUE	FALSE	TRUE	FALSE	FALSE	16703.28		
26	CVTR2020NB48CU07Q8FT	FATR2020NB485M07D8FG	7139921	TRUE	SULFURIC ACID	FALSE		TRUE	FALSE	FALSE	TRUE	FALSE	2331.56		
27	CVTR202099EDEM004Y3P	FATR20204YSXEA00FKR6		TRUE	BATTERIES	FALSE		FALSE	TRUE	TRUE	TRUE	FALSE	10181		
28	CVTR20207RAK700D957	FATR20204YSXEA00FKR6	11010732	FALSE	AUSTIC SODA	FALSE		TRUE	FALSE	FALSE	TRUE	FALSE	1456		
29	CVTR20204YVWH01D1BA	FATR20204YSXEA00FKR6	7122841	TRUE	HYDROGEN PEROXIDE (32% TO 52% BY WEIGHT)	FALSE		FALSE	TRUE	FALSE	TRUE	FALSE	4650		
30	CVTR20204YVWZ601FC1B	FATR20204YSXEA00FKR6	68176335	FALSE	NO. 6 FUEL OIL	FALSE		FALSE	TRUE	FALSE	TRUE	FALSE	130000		
31	CVTR20204YX3001HNMF	FATR20204YSXEA00FKR6		FALSE	SHELL TELLUS OIL	FALSE		FALSE	TRUE	FALSE	TRUE	FALSE	2600		
32	CVTR20204YSY2V0133C4	FATR20204YSVHV003N00	68131395	FALSE	AHCO SCOUR 114	FALSE		FALSE	TRUE	FALSE	TRUE	FALSE	4600		
33	CVTR20204YSYDX019MV7	FATR20204YSVHV003N00	68131812	FALSE	AHCOWET 609	FALSE		FALSE	TRUE	FALSE	TRUE	FALSE	4700		
34	CVTR20204YSYB01NKQG	FATR20204YSVHV003N00	84138614	FALSE	ALBAFLOW CIR PROPYLENE GLYCOL 1%	FALSE		FALSE	TRUE	FALSE	TRUE	FALSE	4400		
35	CVTR20204YVWZ601FC1B	FATR20204YSVHV003N00	7132202	FALSE	AMMONIUM SULFATE	FALSE		FALSE	TRUE	FALSE	TRUE	FALSE	2000		

Column B: This is the Facility Identifier

Find the file: Facility.csv file



	A	B	C	D
1	RecordId	ReportYear	Name	Department
2	FATR20204YE9RJ002XC8	2020	Anvil International, LLC	
3	FATR20208GN3P6002VRU	2020	Ashaway Line & Twine Mfg. Co.	
4	FATR20208GN7N000WHV8	2020	Ashaway Line & Twine Mfg. Co.	
5	FATR20202862XXXXXXX	2020	AT&T - SHANNOCK RD - RI0340	ID:RI0340
6	FATR2020127519XXXXXX	2020	AT&T AVONDALE - USID60073	ID:USID60073
7	FATR2020MZ4R8Y00126L	2020	Cargill Meat Solutions	
8	FATR20201GV2QM00X2MM	2020	CenturyLink - Richmond	
9	FATR2020NB42390578DA	2020	Cox Communications- Exeter STC	
10	FATR2020NB4B5M07D8FG	2020	Cox Communications- Richmond STC	
11	FATR20204YSXEA00FKR6	2020	DARLINGTON FABRICS-BEACH STREET PLANT	Westerly Fire Department
12	FATR20204YSVHV003N00	2020	DARLINGTON FABRICS-CANAL STREET PLANT	Westerly Fire Department
13	FATR20201HCAZV003M3U	2020	DEVELOPMENT ASSOCIATES INC.	North Kingstown
14	FATR2020AGXKJF0029AL	2020	Frank Hall Boatyard	
15	FATR2020718WSP002CMX	2020	Hayward Industries, Inc.	
16	FATR20202VD3SK00232P	2020	Heritage Concrete Corporation	
17	FATR2020NBM2QE0012UA	2020	International Dioxide	
18	FATR20204YQDNF002ESY	2020	Kenyon Industries, Inc.	
19	FATR2020RICHTNRI	2020	MCI- CHTNRI (VZB- RICHTNRI)	
20	FATR20204Y28W1002NF1	2020	Modine Manufacturing Co.	
21	FATR20207QDAX6076TR1	2020	National Grid-West Kingston 62	
22	FATR20201KPW4400BWS2	2020	RIARNG - Army Aviation Support Facility	
23	FATR20206ZHK30C66LY	2020	The Home Depot Store #4283	
24	FATR20209T29PG002B66	2020	Town of South Kingstown Highway/ Parks Maintenance Facility	Highway/Parks
25	FATR2020D73VYE0026DY	2020	US Foods, Inc.	
26	FATR2020RI321106	2020	Verizon BLOCK ISLAND DIAL OFC-NEW SHOREHAM (VZ- RI321106)	
27	FATR2020RI327506	2020	Verizon CHARLESTOWN DIAL OFC (CAROLINA) (VZ- RI327506)	
28	FATR2020RI321206	2020	Verizon HOPE VALLEY DIAL OFC (VZ- RI321206)	
29	FATR2020RI327406	2020	Verizon HOPKINTON DIAL OFC-6 ASHAWAY (VZ- RI327406)	
30	FATR2020RI321407	2020	Verizon NO KINGSTOWN CO (VZ- RI321407)	
31	FATR2020RI321307	2020	Verizon SO KINGSTOWN CO (VZ- RI321307)	
32	FATR2020RI327107	2020	Verizon WESTERLY CO (VZ- RI327107)	
33	FATR2020RI327306	2020	Verizon WESTERLY DIAL OFC (VZ- RI327306)	
34				
35				

Column A: This is the Facility Identifier

Place files: side-by-side: Note: ID Numbers

DARLINGTON FABRICS-BEACH STREET PLANT				
RecordId	ReportYear	Name	Department	
FATR20204YE9RJ002XC8	2020	Anvil International, LLC		
FATR20208GN3P6002VRU	2020	Ashaway Line & Twine Mfg. Co.		
FATR20208GN7N000WHV8	2020	Ashaway Line & Twine Mfg. Co.		
FATR20202862XXXXXXX	2020	AT&T - SHANNOCK RD - RI0340	ID:RI0340	
FATR2020127519XXXXXX	2020	AT&T AVONDALE - USID60073	ID:USID60073	
FATR2020MZ4R8Y00126L	2020	Cargill Meat Solutions		
FATR20201GV2QM00X2MM	2020	CenturyLink - Richmond		
FATR2020NB42390578DA	2020	Cox Communications- Exeter STC		
FATR2020NB4B5M07D8FG	2020	Cox Communications- Richmond STC		
FATR20204YSXEA00FKR6	2020	DARLINGTON FABRICS-BEACH STREET PLANT	Westerly Fire Department	
FATR20204YSVHV003N00	2020	DARLINGTON FABRICS-CANAL STREET PLANT	Westerly Fire Department	
FATR20201HCAZV003M3U	2020	DEVELOPMENT ASSOCIATES INC.	North Kingstown	
FATR2020AGXKJF0029AL	2020	Frank Hall Boatyard		
FATR2020718WSP002CMX	2020	Hayward Industries, Inc.		
FATR20202VD3SK00232P	2020	Heritage Concrete Corporation		
FATR2020NB4B5M07D8FG	2020	International Dioxide		
FATR20204YQDNF002ESY	2020	Kenyon Industries, Inc.		
FATR2020RICHTNRI	2020	MCI- CHTNRI (VZB- RICHTNRI)		
FATR20204Y28W1002NF1	2020	Modine Manufacturing Co.		
FATR20207QDAX6076TR1	2020	National Grid-West Kingston 62		
FATR20201KPW4400BWS2	2020	RIARNG - Army Aviation Support Facility		
FATR20206ZHK30C66LY	2020	The Home Depot Store #4283		
FATR20209T29PG002B66	2020	Town of South Kingstown Highway/ Parks Maintenance Facility	Highway/Parks	
FATR2020D73VYE0026DY	2020	US Foods, Inc.		
FATR2020RI321106	2020	Verizon BLOCK ISLAND DIAL OFC-NEW SHOREHAM (VZ- RI321106)		
FATR2020RI327506	2020	Verizon CHARLESTOWN DIAL OFC (CAROLINA) (VZ- RI327506)		
FATR2020RI321206	2020	Verizon HOPE VALLEY DIAL OFC (VZ- RI321206)		
FATR2020RI327406	2020	Verizon HOPKINTON DIAL OFC-6 ASHAWAY (VZ- RI327406)		
FATR2020RI321407	2020	Verizon NO KINGSTOWN CO (VZ- RI321407)		
FATR2020RI321307	2020	Verizon SO KINGSTOWN CO (VZ- RI321307)		
FATR2020RI327107	2020	Verizon WESTERLY CO (VZ- RI327107)		
FATR2020RI327306	2020	Verizon WESTERLY DIAL OFC (VZ- RI327306)		

CVTR20207R6CXX0099A9				
RecordId	ParentRecordId	Cas number	Ehs	ChemicalName
CVTR20207R6CXX0099A9	FATR20204YE9RJ002XC8		FALSE	Performance Plus Hydraulic Oil AW 68
CVTR20209RYRR2001PEW	FATR20204YE9RJ002XC8		FALSE	A36 Steel
CVTR2020MNE1XR0037W2	FATR20204YE9RJ002XC8		TRUE	Batteries
CVTR2020NBK428002ZWP	FATR20204YE9RJ002XC8		FALSE	80 HPA Garnet Abrasive
CVTR20208GN4EV00E2WX	FATR20208GN3P6002VRU	64175	FALSE	Ethanol
CVTR20208GN53X00H139	FATR20208GN3P6002VRU	6476313	FALSE	Fuel # 4
CVTR20208GN5EK00L8A6	FATR20208GN3P6002VRU	108952	TRUE	Phenol
CVTR20208GN7YL015NR3	FATR20208GN7N000WHV8	6476313	FALSE	Fuel # 4
CVTR20208GN86C018DJZ	FATR20208GN7N000WHV8	64175	FALSE	Ethanol
CVTR20208B77XL700GVDB	FATR20208GN7N000WHV8	108952	TRUE	Phenol
CVTR2020CVTR2020286212XXXXX	FATR20202862XXXXXXX	008206	FALSE	KEROSENE
CVTR2020CVTR202028621XXXXX	FATR20202862XXXXXXX	664939	TRUE	SULFURIC ACID
CVTR2020CVTR2020286246XXXXX	FATR20202862XXXXXXX	439921	FALSE	LEAD
CVTR2020CVTR2020127519XXXXX	FATR2020127519XXXXXX	664939	TRUE	SULFURIC ACID
CVTR2020MZ4RGP00526Q	FATR2020MZ4R8Y00126L	664417	TRUE	Anhydrous Ammonia
CVTR2020MZ57270104JH	FATR2020MZ4R8Y00126L		TRUE	Lead Acid Batteries-Lift Truck
CVTR2020MZT111001CQZ	FATR2020MZ4R8Y00126L	57556	FALSE	propylene glycol
CVTR2020N087X20051X4	FATR2020MZ4R8Y00126L	727379	FALSE	Nitrogen-liquid
CVTR2020N08QH80081X7	FATR2020MZ4R8Y00126L	782447	FALSE	Oxygen
CVTR2020N08QY200A1X9	FATR2020MZ4R8Y00126L	124389	FALSE	Carbon Dioxide
CVTR20203HQ3SP016JCG	FATR20201GV2QM00X2MM		TRUE	Battery
CVTR2020NB42PS05F8DJ	FATR2020NB42390578DA	439921	FALSE	LEAD
CVTR2020NB42VJ05J8DM	FATR2020NB42390578DA	664939	TRUE	SULFURIC ACID
CVTR2020NB4B8D07M8FQ	FATR2020NB4B5M07D8FG	439921	FALSE	LEAD
CVTR2020NB4BCU07Q8FT	FATR2020NB4B5M07D8FG	664939	TRUE	SULFURIC ACID
CVTR202099EDEM004Y3P	FATR20204YSXEA00FKR6		TRUE	BATTERIES
CVTR20207RARK700D957	FATR20204YSXEA00FKR6	310732	FALSE	CAUSTIC SODA
CVTR20204YYVWH01D1BA	FATR20204YSXEA00FKR6	722841	TRUE	HYDROGEN PEROXIDE (32% TO 52% BY WEIGHT)
CVTR20204YYVZ601FC1B	FATR20204YSXEA00FKR6	6476335	FALSE	NO. 6 FUEL OIL
CVTR20204YYX3001HNMFM	FATR20204YSXEA00FKR6		FALSE	SHELL TELLUS OIL
CVTR20204YSY2V0133C4	FATR20204YSVHV003N00	6131395	FALSE	AHCO SCOUR 114
CVTR20204YSYDX019MV7	FATR20204YSVHV003N00	6081812	FALSE	AHCOWET 609
CVTR20204YSYB01NKKQG	FATR20204YSVHV003N00	8988614	FALSE	ALBAFLOW CIR PROPYLENE GLYCOL 1%
CVTR202094RP3E00118R	FATR20204YSVHV003N00	783202	FALSE	AMMONIUM SULFATE
CVTR20204YVFN017SLH	FATR20204YSVHV003N00		FALSE	CAL LUBE PLL-N
CVTR202094RVMR00HA31	FATR20204YSVHV003N00		FALSE	CAL WASHDOWN

In a separate spreadsheet, add facility names to match chemicals

Facilities.csv [Read-Only] - Excel			
File Home Insert Page Layout Formulas Data Review View Developer Foxt PDF Tell me what you want to do...			
B1 X ✓ ✕ Name			
RecordId	Name	ParentRecordId	ChemicalName
FATR20204YE9RJ002XC8	Anvil International, LLC	FATR20204YE9RJ002XC8	Performance Plus Hydraulic Oil AW 68
FATR20208GN3P6002VRU	Ashaway Line & Twine Mfg. Co.	FATR20204YE9RJ002XC8	A36 Steel
FATR20208GN7N000WHV8	Ashaway Line & Twine Mfg. Co.	FATR20204YE9RJ002XC8	Batteries
FATR20202862XXXXXXX	AT&T - SHANNOCK RD - RI0340	FATR20204YE9RJ002XC8	80 HPA Garnet Abrasive
FATR2020127519XXXXXX	AT&T AVONDALE - USID60073	FATR20208GN3P6002VRU	Ethanol
FATR2020M24R8Y00126L	Cargill Meat Solutions	FATR20208GN3P6002VRU	Fuel # 4
FATR20201GV2QM00X2MM	CenturyLink - Richmond	FATR20208GN3P6002VRU	Phenol
FATR2020NB42390578DA	Cox Communications- Exeter STC	FATR20208GN7N000WHV8	Fuel # 4
FATR2020NB4B5M07D8FG	Cox Communications- Richmond STC	FATR20208GN7N000WHV8	Ethanol
FATR20204YSXEA00FKR6	DARLINGTON FABRICS-BEACH STREET PLANT	FATR20208GN7N000WHV8	Phenol
FATR20204YSVHV003N00	DARLINGTON FABRICS-CANAL STREET PLANT	FATR20202862XXXXXXX	KEROSENE
FATR20201HCAZV003M3U	DEVELOPMENT ASSOCIATES INC.	FATR20202862XXXXXXX	SULFURIC ACID
FATR2020AGXKF0029AL	Frank Hall Boatyard	FATR20202862XXXXXXX	LEAD
FATR2020718WSP002CMX	Hayward Industries, Inc.	FATR2020127519XXXXXX	SULFURIC ACID
FATR20202VD3SK00232P	Heritage Concrete Corporation	FATR2020M24R8Y00126L	Anhydrous Ammonia
FATR2020NB8M2QE0012UA	International Dioxide	FATR2020M24R8Y00126L	Lead Acid Batteries-Lift Truck
FATR20204YQDNF002ESY	Kenyon Industries, Inc.	FATR2020M24R8Y00126L	propylene glycol
FATR2020RICHTRNI	MCI- CHTNRI (VZB- RICHTNRI)	FATR2020M24R8Y00126L	Nitrogen-liquid
FATR20204Y28W1002NF1	Modine Manufacturing Co.	FATR2020M24R8Y00126L	Oxygen
FATR20207QDAX6076TR1	National Grid-West Kingston 62	FATR2020M24R8Y00126L	Carbon Dioxide
FATR20201KPW4400BWS2	RIARNG - Army Aviation Support Facility	FATR20201GV2QM00X2MM	Battery
FATR20206ZHKM30C66LY	The Home Depot Store #4283	FATR2020NB42390578DA	LEAD
FATR20209T29PG002B66	Town of South Kingstown Highway/ Parks Maintenance Facility	FATR2020NB42390578DA	SULFURIC ACID
FATR2020D73VYE002BDY	US Foods, Inc.	FATR2020NB4B5M07D8FG	LEAD
FATR2020RI321106	Verizon BLOCK ISLAND DIAL OFC-NEW SHOREHAM (VZ- RI321106)	FATR2020NB4B5M07D8FG	SULFURIC ACID
FATR2020RI327506	Verizon CHARLESTOWN DIAL OFC (CAROLINA) (VZ- RI327506)	FATR20204YSXEA00FKR6	BATTERIES
FATR2020RI321206	Verizon HOPE VALLEY DIAL OFC (VZ- RI321206)	FATR20204YSXEA00FKR6	CAUSTIC SODA
FATR2020RI327406	Verizon HOPKINTON DIAL OFC-6 ASHAWAY (VZ- RI327406)	FATR20204YSXEA00FKR6	HYDROGEN PEROXIDE (32% TO 52% BY WEIGHT)
FATR2020RI321407	Verizon NO KINGSTOWN CO (VZ- RI321407)	FATR20204YSXEA00FKR6	NO. 6 FUEL OIL
FATR2020RI321307	Verizon SO KINGSTOWN CO (VZ- RI321307)	FATR20204YSXEA00FKR6	SHELL TELLUS OIL
FATR2020RI327107	Verizon WESTERLY CO (VZ- RI327107)	FATR20204YSVHV003N00	AHCO SCOUR 114
FATR2020RI327306	Verizon WESTERLY DIAL OFC (VZ- RI327306)	FATR20204YSVHV003N00	AHCOWET 609
		FATR20204YSVHV003N00	ALBAFLOW CIR PROPYLENE GLYCOL 1%
		FATR20204YSVHV003N00	AMMONIUM SULFATE
		FATR20204YSVHV003N00	CAL LUBE PLL-N
		FATR20204YSVHV003N00	CAL WASHDOWN
		FATR20204YSVHV003N00	CALFIX TAP
		FATR20204YSVHV003N00	CALTERGE FS-C
		FATR20204YSVHV003N00	CAUSTIC SODA
		FATR20204YSVHV003N00	CHROMASIST DRC
		FATR20204YSVHV003N00	CITRIC ACID 50% LIQUID
		FATR20204YSVHV003N00	Nylonfixan FN-6 (previously DOMOFIX FN6)
		FATR20204YSVHV003N00	LANASYN BLACK MDL (formerly SDL)
		FATR20204YSVHV003N00	LUBE SP

Expand the list and match facility names to the proper ID number

Facilities.csv [Read-Only] - Excel

File Home Insert Page Layout Formulas Data Review View Developer Foxit PDF Tell me what you want to do...				
A3				FATR20208GN3P6002VRU
	A	B	C	D
1	RecordId	Name	ParentRecordId	ChemicalName
2	FATR20204YE9RJ002XC8	Anvil International, LLC	FATR20204YE9RJ002XC8	Performance Plus Hydraulic Oil AW 68
3	FATR20208GN3P6002VRU	Ashaway Line & Twine Mfg. Co.	FATR20204YE9RJ002XC8	A36 Steel
4	FATR20208GN7N000WHV8	Ashaway Line & Twine Mfg. Co.	FATR20204YE9RJ002XC8	Batteries
5	FATR20202862XXXXXXX	AT&T - SHANNOCK RD - RI0340	FATR20204YE9RJ002XC8	80 HPA Garnet Abrasive
6	FATR2020127519XXXXXX	AT&T AVONDALE - USID60073	FATR20208GN3P6002VRU	Ethanol
7	FATR2020MZ4R8Y00126L	Cargill Meat Solutions	FATR20208GN3P6002VRU	Fue
8	FATR20201GV2QM00X2MM	CenturyLink - Richmond	FATR20208GN3P6002VRU	Phe
9	FATR2020NB42390578DA	Cox Communications- Exeter STC	FATR20208GN7N000WHV8	Fue
10	FATR2020NB4B5M07D8FG	Cox Communications- Richmond STC	FATR20208GN7N000WHV8	Etha
11	FATR20204YSXEA00FKR6	DARLINGTON FABRICS-BEACH STREET PLANT	FATR20208GN7N000WHV8	Phe
12	FATR20204YSVHV003N00	DARLINGTON FABRICS-CANAL STREET PLANT	FATR20202862XXXXXXX	KER
13	FATR20201HCAZV003M3U	DEVELOPMENT ASSOCIATES INC.	FATR20202862XXXXXXX	SUL
14	FATR2020AGXKJF0029AL	Frank Hall Boatyard	FATR20202862XXXXXXX	LEA
15	FATR2020718WSP002CMX	Hayward Industries, Inc.	FATR2020127519XXXXXX	SUL
16	FATR20202VD3SK00232P	Heritage Concrete Corporation	FATR2020MZ4R8Y00126L	Anhydrous Ammonia
17	FATR2020NB42390578DA	International Dioxide	FATR2020MZ4R8Y00126L	Lead Acid Batteries-Lift Truck
18	FATR20204YQDNF002ESY	Kenyon Industries, Inc.	FATR2020MZ4R8Y00126L	propylene glycol
19	FATR2020RICHTRNRI	MCI- CHTNRI (VZB- RIHTNRI)	FATR2020MZ4R8Y00126L	Nitrogen-liquid
20	FATR20204Y28W1002NF1	Modine Manufacturing Co.	FATR2020MZ4R8Y00126L	Oxygen
21	FATR20207QDAX6076TR1	National Grid-West Kingston 62	FATR2020MZ4R8Y00126L	Carbon Dioxide
22	FATR20201KPW4400BWS2	RIARNG - Army Aviation Support Facility	FATR20201GV2QM00X2MM	Battery
23	FATR20206ZHKJN30C66LY	The Home Depot Store #4283	FATR2020NB42390578DA	LEAD
24	FATR20209T29PG002B66	Town of South Kingstown Highway/ Parks Maintenance Facility	FATR2020NB42390578DA	SULFURIC ACID
25	FATR2020D73VYE0026DY	US Foods, Inc.	FATR2020NB4B5M07D8FG	LEAD
26	FATR2020RI321106	Verizon BLOCK ISLAND DIAL OFC-NEW SHOREHAM (VZ- RI321106)	FATR2020NB4B5M07D8FG	SULFURIC ACID
27	FATR2020RI327506	Verizon CHARLESTOWN DIAL OFC (CAROLINA) (VZ- RI327506)	FATR20204YSXEA00FKR6	BATTERIES
28	FATR2020RI321206	Verizon HOPE VALLEY DIAL OFC (VZ- RI321206)	FATR20204YSXEA00FKR6	CAUSTIC SODA
29	FATR2020RI327406	Verizon HOPKINTON DIAL OFC-6 ASHAWAY (VZ- RI327406)	FATR20204YSXEA00FKR6	HYDROGEN PEROXIDE (32% TO 52% BY WEIGHT)
30	FATR2020RI321407	Verizon NO KINGSTOWN CO (VZ- RI321407)	FATR20204YSXEA00FKR6	NO. 6 FUEL OIL
31	FATR2020RI321307	Verizon SO KINGSTOWN CO (VZ- RI321307)	FATR20204YSXEA00FKR6	SHELL TELLUS OIL
32	FATR2020RI327107	Verizon WESTERLY CO (VZ- RI327107)	FATR20204YSVHV003N00	AHCOWET 609
33	FATR2020RI327306	Verizon WESTERLY DIAL OFC (VZ- RI327306)	FATR20204YSVHV003N00	ALBAFLOW CIR PROPYLENE GLYCOL 1%
34			FATR20204YSVHV003N00	AMMONIUM SULFATE
35				

Note: We must perform the following:

- ▶ Create a new spreadsheet
- ▶ Copy/paste facility, Facility ID, Chemical names, & Directions columns into new spreadsheet
- ▶ Manipulate the datasheet to match facility with its appropriate inventory and directions

Resulting list

Its chemical inventory

Facilities.csv [Read Only] - Excel				
File Home Insert Page Layout Formulas Data Review View Developer Foxit PDF Tell me what you want to do...				
C123				
FATR2020RI321307				
	B	C	D	
1	Name	RecordId	ParentRecordId	ChemicalName
2	Anvil International, LLC	FATR20204YE9RJ002XC8	FATR20204YE9RJ002XC8	Performance Plus Hydraulic Oil AW 68
3			FATR20204YE9RJ002XC8	A36 Steel
4			FATR20204YE9RJ002XC8	Batteries
5			FATR20204YE9RJ002XC8	80 HPA Garnet Abrasive
6	Ashaway Line & Twine Mfg. Co.			
7			FATR20208GN3P6002VRU	Fuel # 4
8			FATR20208GN3P6002VRU	Phenol
9		FATR20208GN7N000WHV8	FATR20208GN7N000WHV8	Fuel # 4
10			FATR20208GN7N000WHV8	Ethanol
11			FATR20208GN7N000WHV8	Phenol
12	AT&T - SHANNOCK RD - RI0340	FATR20202862XXXXXXX	FATR20202862XXXXXXX	KEROSENE
13			FATR20202862XXXXXXX	SULFURIC ACID
14			FATR20202862XXXXXXX	LEAD
15	AT&T AVONDALE - USID60073	FATR2020127519XXXXXX	FATR2020127519XXXXXX	SULFURIC ACID
16	Cargill Meat Solutions	FATR2020MZ4R8Y00126L	FATR2020MZ4R8Y00126L	Anhydrous Ammonia
17			FATR2020MZ4R8Y00126L	Lead Acid Batteries-Lift Truck
18			FATR2020MZ4R8Y00126L	propylene glycol
19			FATR2020MZ4R8Y00126L	Nitrogen-liquid
20			FATR2020MZ4R8Y00126L	Oxygen
21			FATR2020MZ4R8Y00126L	Carbon Dioxide
22	CenturyLink - Richmond	FATR20201GV2QM00X2MM	FATR20201GV2QM00X2MM	Battery
23	Cox Communications- Exeter STC	FATR2020NB42390578DA	FATR2020NB42390578DA	LEAD
24			FATR2020NB42390578DA	SULFURIC ACID
25	Cox Communications- Richmond STC	FATR2020NB4B5M07D8FG	FATR2020NB4B5M07D8FG	LEAD
26	DARLINGTON FABRICS-BEACH STREET PLANT	FATR20204YSXEA00FKR6	FATR2020NB4B5M07D8FG	SULFURIC ACID
27			FATR20204YSXEA00FKR6	BATTERIES
28			FATR20204YSXEA00FKR6	CAUSTIC SODA
29			FATR20204YSXEA00FKR6	HYDROGEN PEROXIDE (32% TO 52% BY WEIGHT)
30			FATR20204YSXEA00FKR6	NO. 6 FUEL OIL
31			FATR20204YSXEA00FKR6	SHELL TELLUS OIL
32	DARLINGTON FABRICS-CANAL STREET PLANT	FATR20204YSVHV003N00	FATR20204YSVHV003N00	AHCO SCOUR 114
33			FATR20204YSVHV003N00	AHCOWET 609
34			FATR20204YSVHV003N00	ALBAFLOW CIR PROPYLENE GLYCOL 1%
35			FATR20204YSVHV003N00	AMMONIUM SULFATE
36			FATR20204YSVHV003N00	CAL LUBE PLL-N
37			FATR20204YSVHV003N00	CAL WASHDOWN
38			FATR20204YSVHV003N00	CALFIX TAP
39			FATR20204YSVHV003N00	CALTERGE FS-C

Facility

Directions for each chemical to facility

Remove appropriate columns that are no longer needed

Facilities.csv [Read-Only] - Excel

File Home Insert Page Layout Formulas Data Review View Developer Foxit PDF Tell me what you want to do...

A5 X ✓ fx Anvil International, LLC

	A	B	
1	Name	ChemicalName	Directions to Facility
2	Anvil International, LLC	Performance Plus Hydraulic Oil AW 68	Route 95 to Route 4 to Route 403 to Frenchtown Rd
3	Anvil International, LLC	A36 Steel	A36 Carbon Steel is received from various sources on an as-need
4	Anvil International, LLC	Batteries	Route 95 to Route 4 to Route 403 to Frenchtown Road --- Prima
5	Anvil International, LLC	80 HPA Garnet Abrasive	Primary = MA 146 S to 295 S to 95 S to Route 4 S to RI 402 E to
6	Ashaway Line & Twine Mfg. Co.	Ethanol	I-95 to Rt. 3 South, to Laurel Street
7	Ashaway Line & Twine Mfg. Co.	Fuel # 4	I-95 to Rt. 3 South, to Laurel Street
8	Ashaway Line & Twine Mfg. Co.	Phenol	I-95 to Rt. 3 South, to Laurel Street
9	Ashaway Line & Twine Mfg. Co.	Fuel # 4	I-95 to Rt. 3 South, to Laurel Street
10	Ashaway Line & Twine Mfg. Co.	Ethanol	I-95 to Rt. 3 South, to Laurel Street
11	Ashaway Line & Twine Mfg. Co.	Phenol	I-95 to Rt. 3 South, to Laurel Street
12	AT&T - SHAN		
13	AT&T - SHAN		10, 15, 20 years.
14	AT&T - SHAN		10, 15, 20 years.
15	AT&T AVOND		10, 15, 20 years.
16	Cargill Meat Solutions	Anhydrous Ammonia	Primary: I-95 to Rt 4 South to exit 7B. Continue on Rt 403 to W
17	Cargill Meat Solutions	Lead Acid Batteries-Lift Truck	Primary; I-95 to Rt 4 South to exit 7B. Continue on Rt 403 to W
18	Cargill Meat Solutions	propylene glycol	Equipment containing propylene glycol is listed in the Glycol In
19	Cargill Meat Solutions	Nitrogen-liquid	Primary: I-95 to Rt 4 South to exit 7B. Continue on Rt 403 to W
20	Cargill Meat Solutions	Oxygen	Primary: I-95 to Rt 4 South to exit 7B. Continue on Rt 403 to W
21	Cargill Meat Solutions	Carbon Dioxide	Primary: I-95 to Rt 4 South to exit 7B. Continue on Rt 403 to W
22	CenturyLink - Richmond	Battery	When exiting facility, turn left and continue 1 mile. Turn right o
23	Cox Communications - Exeter STC	LEAD	Batteries are shipped to site infrequently by common carrier wh

Resulting spreadsheet contains facility, chemical, & travel from the nearest interstate

MYSTIC REPC: Database Issues

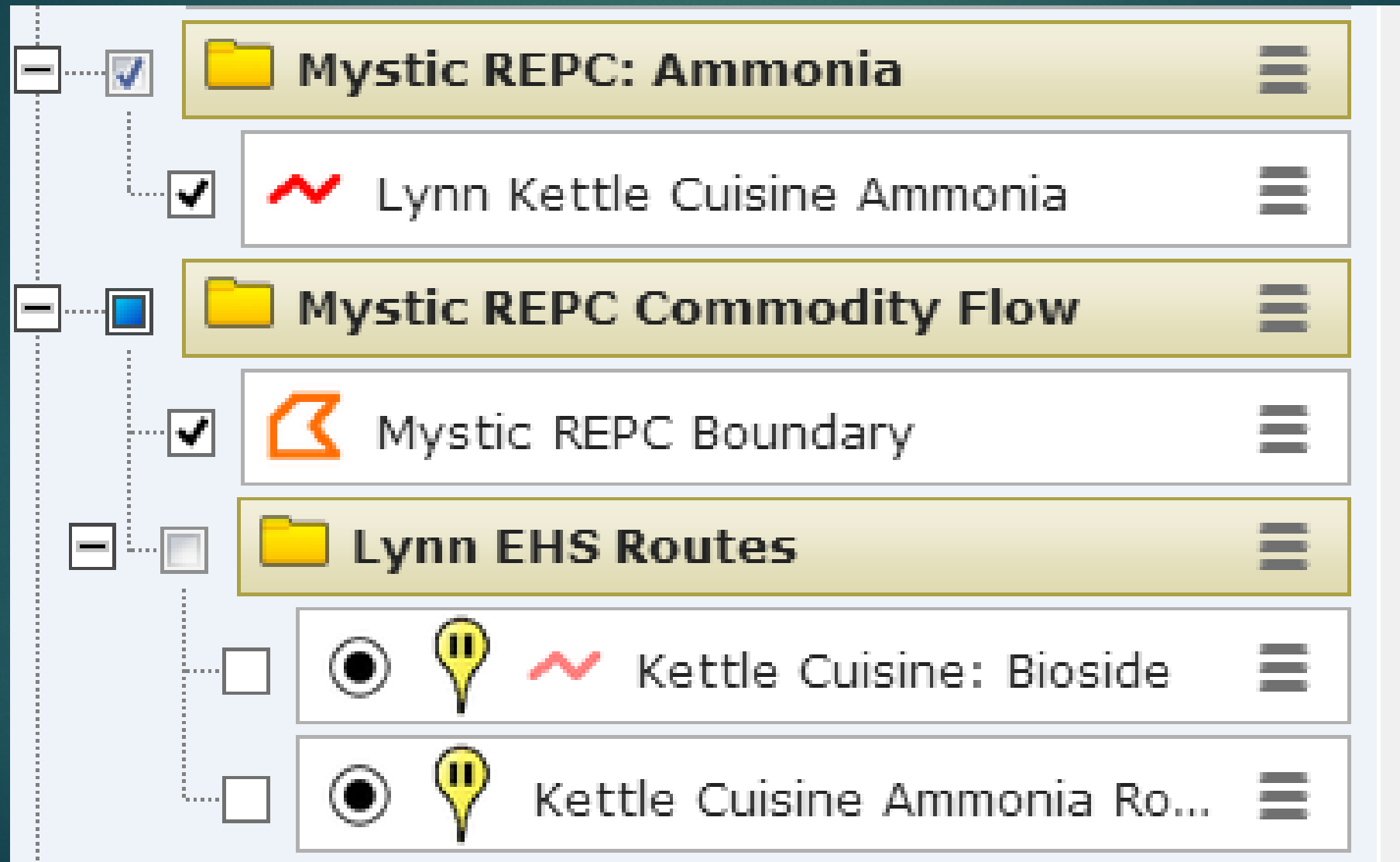
- ▶ Transportation Routes labeled as "N/A"
- ▶ Supplier Information not complete:
 - ▶ Phone number listed as:
 - ▶ 999-999-9999



Transpose information into GIS

- ▶ Utilizing shapefiles in MARPLOT:
 - ▶ Create a Group for each facility
 - ▶ Option 1: Create a layer for each chemical for that facility and trace its direction of travel
 - ▶ This will allow for envelopes to be generated for hazard analysis
 - ▶ Option 2: Create 1 layer for every facility with a common direction of travel & trace it
 - ▶ Information for every chemical would be populated in the popup box menu for the assigned facility
 - ▶ Chemical with the largest daytime & nighttime hazard zones based upon the latest version of the Emergency Response Guidebook

MARPLOT: Display Manager



Utilizing Google Earth for accurate route placement

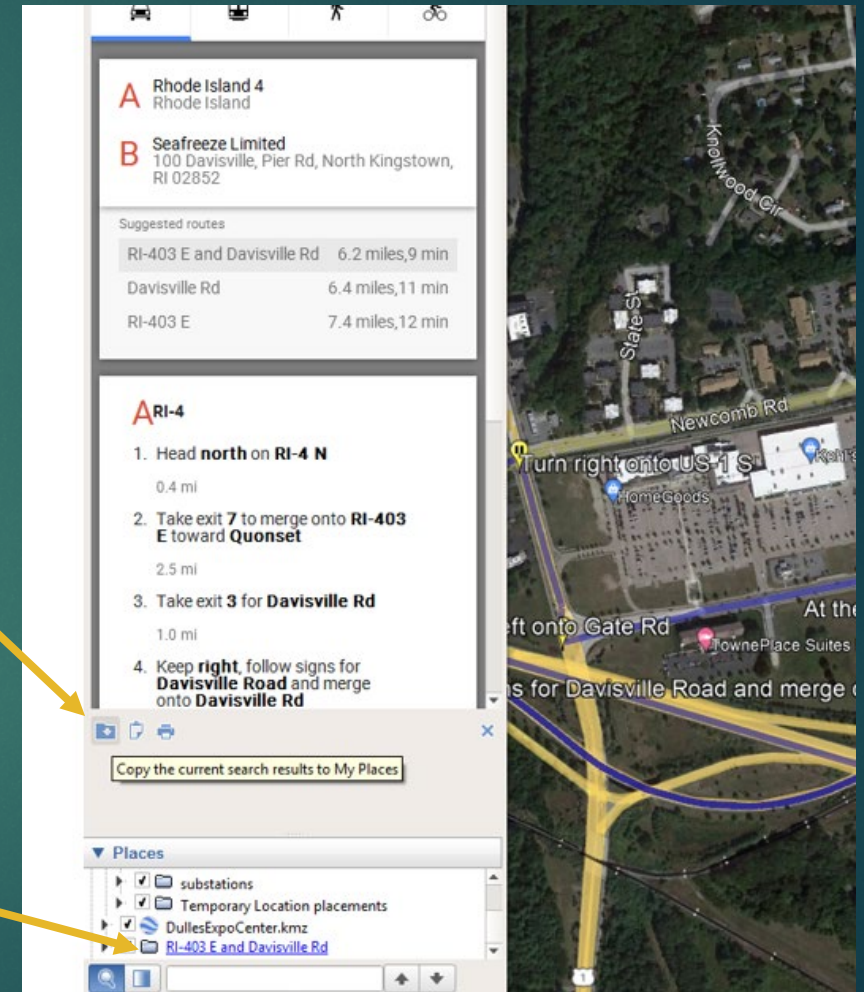
- ▶ Determine the location for the route from the chemical-in-inventory record
- ▶ Open “Google Earth” and find the facility.
- ▶ From “Google Earth”, determine directions from the nearest Interstate or highway to the facility. Match it up with the route directions from Chemical inventory record.

Utilizing Google Earth for accurate route placement



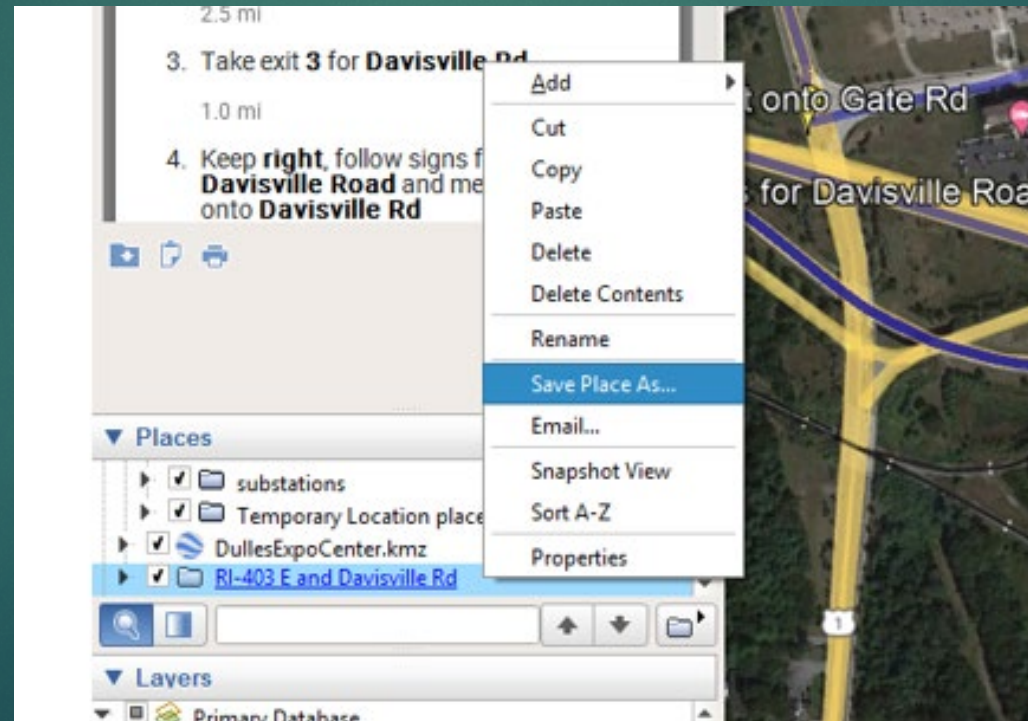
Utilizing Google Earth for accurate route placement

- ▶ From the Display Menu, select, copy the current search results to My Places.
- ▶ It will appear in the “Places” display option below



Utilizing Google Earth for accurate route placement

- ▶ Right click on the route in the “Places” display menu and select “save place as” a .kmz file on your desktop.



Utilizing Google Earth for accurate route placement

- ▶ Open Marplot and import the newly created .kmz file into a folder of your choosing.
- ▶ Optional: You may want to link specific routes to a chemical-in-inventory record to reflect hazard zones, as written in the ERG.

Kettle Cuisine: Route Record

Location	Intersections	Chemicals	Incidents
All changes saved.			
Route Name	Lynn: Kettle Cuisine: ANHYDROUS AMM	Route Type	Primary Road
Types of Vehicles		All	Vehicles Per Day
Route Uses			
<input type="checkbox"/> Evacuation <input type="checkbox"/> Snow <input type="checkbox"/> School <input checked="" type="checkbox"/> HAZMAT <input type="checkbox"/> Mass Transit			
Location			
Start Point		41.834087°N, 71.368490°W	End Point
42.456703°N, 70.949014°W		County/District	
Fire District		Lynn	
<input checked="" type="checkbox"/> Record is linked to a MARPLOT object			
Intersections			
This route has no route intersections.			
Add Route Intersection			
Chemicals			
Chemical Name			
CAS			
EHS			
Maximum Amount (Pounds)			
ANHYDROUS AMMONIA, LIQUEFIED			
7664-41-7			
Yes			
12,144			
List this route's chemicals			
Add Chemical			
Incidents			
This route has no incidents.			
Add Incident			
Attachments			
This route has no attachments.			
Add Attachment			
Notes			
Reported Route Information: route 93 to route 1a			
Imported: 5/21/2022 4:20 pm			
Last modified: 5/23/2022			
Back to chemical "ANHYDROUS AMMONIA, LIQUEFIED"			

Kettle Cuisine: Route Chem-In-Inventory

Physical State & Amounts	Hazards	Locations	Components						
Route Name: Lynn: Kettle Cuisine: ANHYDROUS AMMONIA, LIQUEFIED Route Type: Primary Road									
CAS Number	7664-41-7 ⓘ EHS ⓘ <input checked="" type="radio"/> Yes <input type="radio"/> No	SDS ⓘ	CAMEO Chemicals						
Chemical Name <input type="text" value="ANHYDROUS AMMONIA, LIQUEFIED"/> ⓘ									
<input type="checkbox"/> Hazard not otherwise classified (enter the specific hazard in the route's Notes field) ⓘ									
Storage Locations ⓘ									
<input type="checkbox"/> Storage locations are confidential ⓘ <i>This facility has no storage locations.</i> Add Storage Location									
Mixture Components ⓘ									
<i>This chemical has no mixture components.</i> Add Mixture Component									
Screenings & Scenarios ⓘ									
<table border="1"><thead><tr><th>Type</th><th>Name</th><th></th></tr></thead><tbody><tr><td>Scenario</td><td>ANHYDROUS AMMONIA, LIQUEFIED</td><td> ×</td></tr></tbody></table> Add Screening or Scenario				Type	Name		Scenario	ANHYDROUS AMMONIA, LIQUEFIED	×
Type	Name								
Scenario	ANHYDROUS AMMONIA, LIQUEFIED	×							
Dates									
<input type="checkbox"/> Chemical information identical to previous year									
Report year <input type="text"/> (from January 1 to December 31)									
Days on site <input type="text" value="365"/>									
Date Tier II signed <input type="text"/>									
Date Tier II received <input type="text"/>									
Notes									
<input type="text" value="Route 93 to Route 1A"/>									

Kettle Cuisine: Scenario

Scenario Description

All changes saved

Route Name: [Lynn: Kettle Cuisine: ANHYDROUS AMMONIA, LIQUEFIED](#)

Chemical Name: [ANHYDROUS AMMONIA, LIQUEFIED](#) CAS Number: 7664-41-7

Scenario Name

Amount Released pounds

Concentration % by weight

Release Duration minutes

Physical State ☒ Gas ☐ Liquid ☐ Solid

Surface area within dike sq ft (enter a value only if stored in a container with a dike)

Atmospheric Concentration Level of Concern gm/m³
Matches the EPA Green Book LOC value for this chemical.

Weather Information

Wind Speed mph

Wind From degrees clockwise from 0 N (for example 45 means wind from NE)

Ground Roughness

Stability Class ⓘ

Risk Assessment ⓘ

Risk Probability of described accident occurring

Consequences Severity of consequences to people

Overall Risk Combination of probability and severity of consequences

Estimate Threat Zone Radius ⓘ

Threat Zone Radius miles

Show on Map

Notes

Kettle Cuisine: MARPLOT

CAMEO Data Manager 4.1.0

Facilities Contacts Chemical Inventory Incidents Special Locations Routes Resources MARPLOT Import Export Help

Location Intersections Attachments Notes

Route Name: Lynn: Kettle Cuisine: ANHYDROUS AMM Route Type: Primary Road

Route Uses: ☐ Evacuation ☐ Snow ☐ School ☒ HAZMAT ☐ Mass Transit

Location

Start Point: 41.834087°N, 71.368490°W End Point: 42.456703°N, 70.949014°W

County/District: Fire District: Lynn

☒ Record is linked to a MARPLOT object

Intersections

This route has no route intersections.

Add Route Intersection

Chemicals

Chemical Name	CAS	EHS	Maximum Amount (Pounds)
ANHYDROUS AMMONIA, LIQUEFIED	7664-41-7	Yes	12,144

List this route's chemicals Add Chemical

Incidents

This route has no incidents.

Add Incident

Attachments

This route has no attachments.

Add Attachment

Notes

Reported Route Information: route 93 to route 1a

Imported: 5/21/2022 4:20 pm Last modified: 5/23/2022

Back to chemical "ANHYDROUS AMMONIA, LIQUEFIED" Back to Top

Types of Vehicle

Show on map

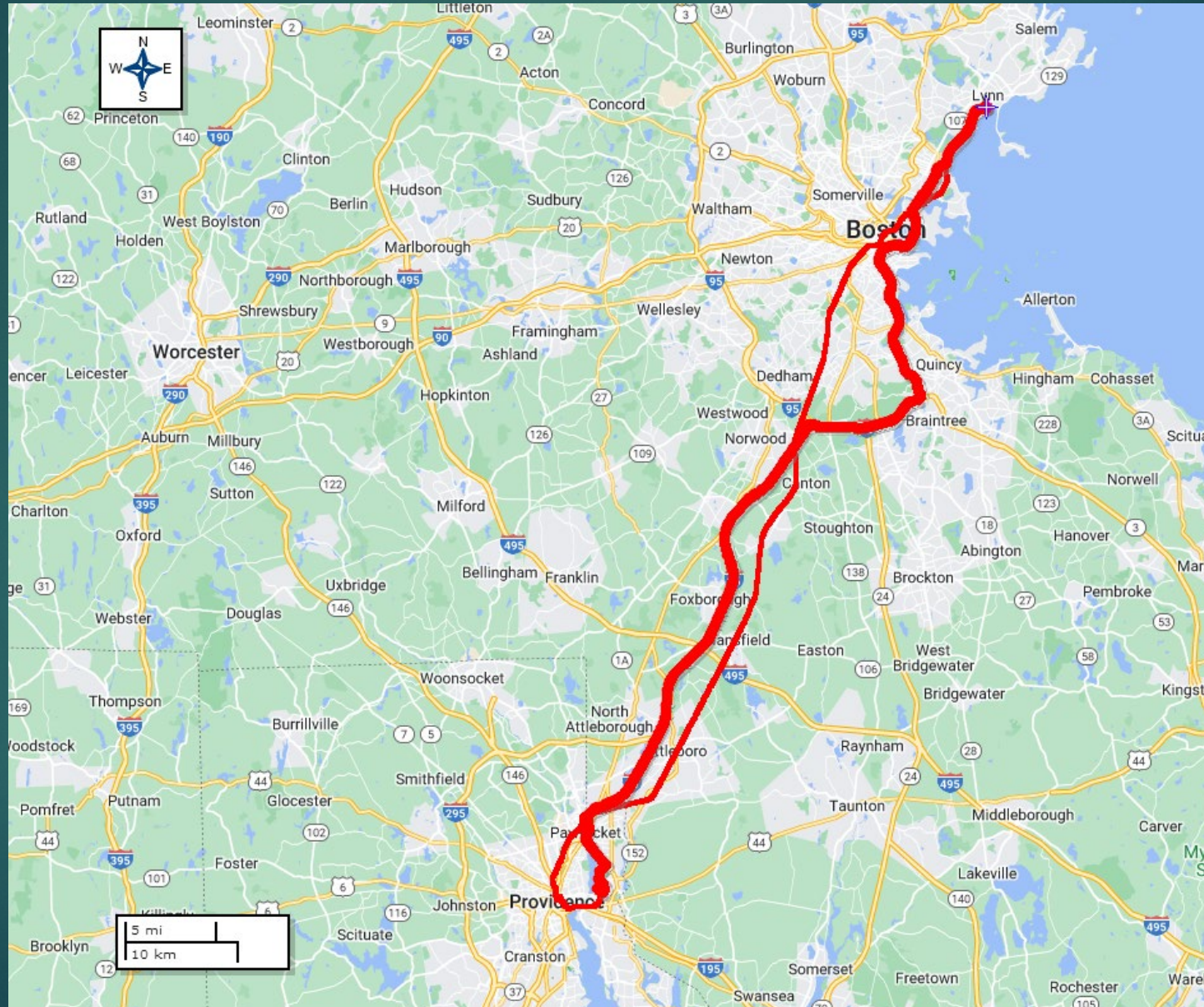
Unlink

Find broken links in current list

Remove broken links in current list

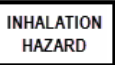




Go to MARPLOT

Kettle Cuisine: MARPLOT



Kettle Cuisine: MARPLOT: ERG Value


UN/NA 1005



→ [CAMEO Chemicals has 1 chemical datasheet](#) with response recommendations for this UN/NA number. Response recommendations from the ERG are provided below.

Emergency Response Guidebook (ERG, 2020)
[What is this information?](#)

Material Names
Ammonia, anhydrous
Anhydrous ammonia



Response Guide 125
[Gases - Toxic and/or Corrosive](#)
☒ English ☐ Español ☐ Français

ERG Table 1: Initial Isolation and Protective Action Distances

Name of Material	Small Spills (from a small package or small leak)			Large Spills (from a large package or many small packages)		
	First Isolate in all Directions	Then Protect Downwind		First Isolate in all Directions	Then Protect Downwind	
		Day	Night		Day	Night
Ammonia, anhydrous	100 ft	0.1 mi	0.1 mi		Refer to Table 2	
Anhydrous ammonia	100 ft	0.1 mi	0.1 mi		Refer to Table 3	

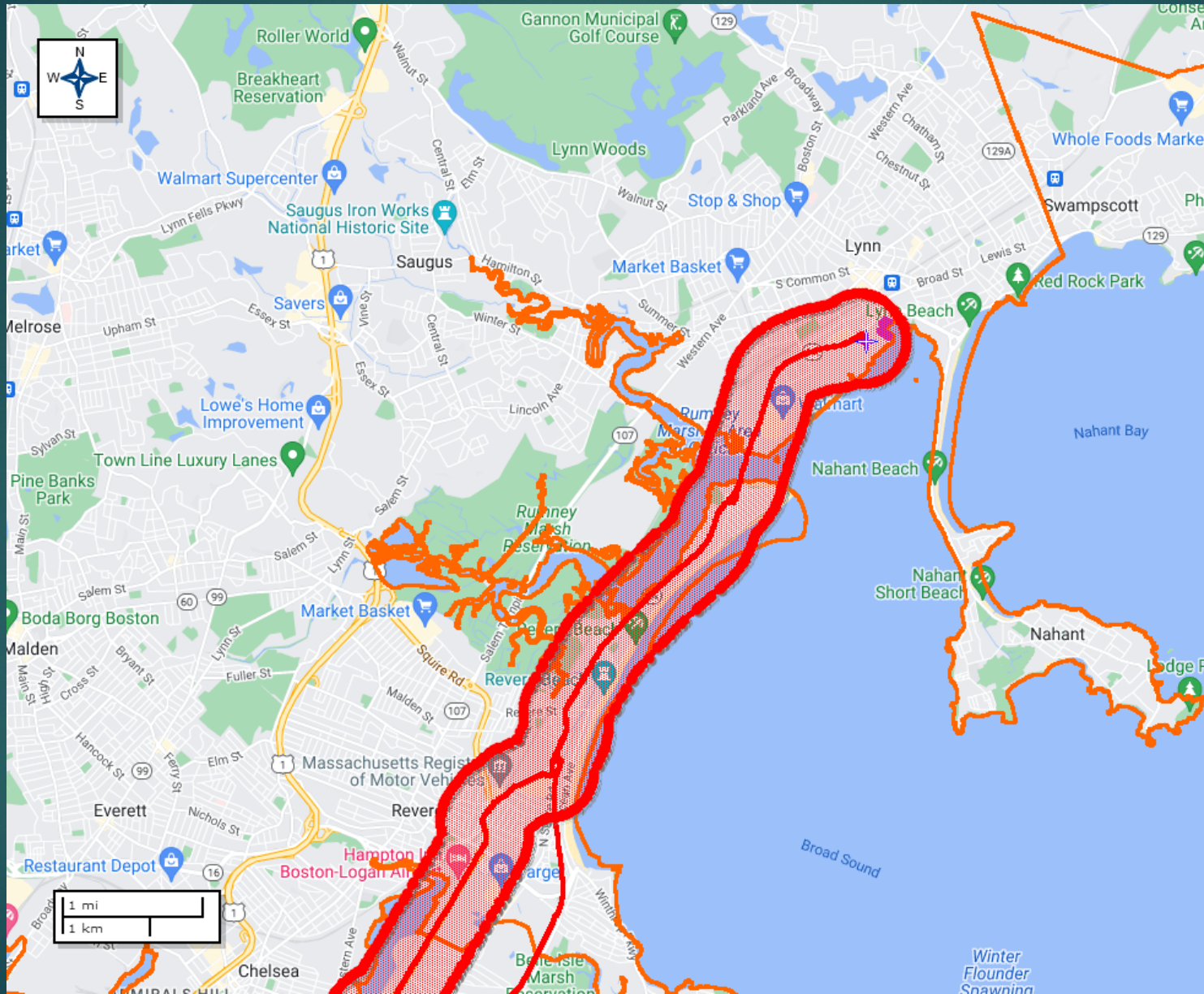
The ERG doesn't predict that large amounts of **toxic-by-inhalation gases** will be produced if this material is spilled in water.

ERG Table 3: Initial Isolation and Protective Action Distances for Different Quantities of Six Common Toxic-by-Inhalation Gases

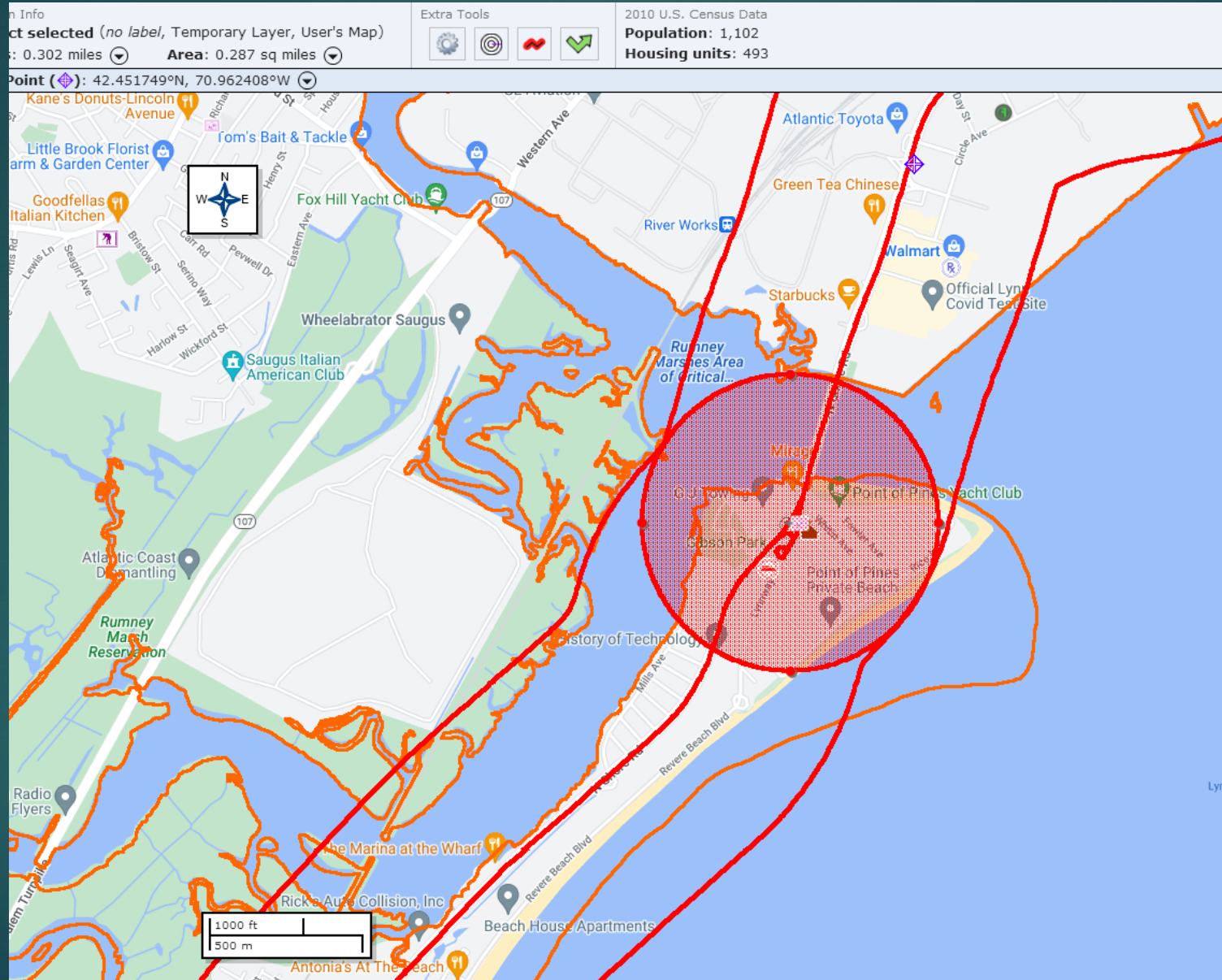
UN1005 Ammonia, anhydrous: Large Spills							
Transport Container	First Isolate in all Directions	Then Protect Downwind					
		Day			Night		
		Low Wind (<6 mph)	Moderate Wind (6-12 mph)	High Wind (>12 mph)	Low Wind (<6 mph)	Moderate Wind (6-12 mph)	High Wind (>12 mph)
Rail tank car	1000 ft	1.2 mi	0.9 mi	0.6 mi	2.8 mi	1.5 mi	0.9 mi
Highway tank truck or trailer	500 ft	0.6 mi	0.3 mi	0.3 mi	1.3 mi	0.5 mi	0.4 mi
Agricultural nurse tank	200 ft	0.3 mi	0.2 mi	0.2 mi	0.9 mi	0.2 mi	0.2 mi
Multiple small cylinders	100 ft	0.2 mi	0.1 mi	0.1 mi	0.5 mi	0.2 mi	0.1 mi

EPZ

Kettle Cuisine: MARPLOT: ERG Value



Kettle Cuisine: MARPLOT: ERG Value



Final Plan

- ▶ Build a template for a commodity pre-incident plan for the given jurisdiction
- ▶ Include the overall statistics for the jurisdiction and reported chemicals
- ▶ Include a percentage breakdown of known chemicals to facilities
- ▶ Include spreadsheet for every facility and EHS inventories
- ▶ Include screenshots from MARPLOT
- ▶ Demonstrate associated Emergency Planning Zones
- ▶ Include demographics based upon current Population and Housing Census
- ▶ Provide drafts to jurisdictions for review and input
- ▶ Generate CAMEOdm & MARPLOT databases for every jurisdiction
- ▶ In addition:
 - ▶ More Training
 - ▶ Service Stations

Did you know?

- ▶ **CAMEODM can be utilized for:**
 - ▶ **Resource Typing**
 - ▶ **Inventory Maintenance**
 - ▶ **Identifying routes other than HAZMAT**
 - ▶ **Training & Maintenance Records**

Agency Examples:

- ▶ St Charles, Parish, LA: Hurricane Katrina
- ▶ Tammany Parish, LA: ISO Reduction
- ▶ New Bedford, MA: THIRA Development
- ▶ Bayer (Monsanto Chemical Co): EPZ and CEM Plan Development
- ▶ Pomona Emergency Intake Center, CA
- ▶ Winchester, KY USAR: SAR
- ▶ St. Croix, Virgin Islands: Preplanning & Training Record Maintenance
- ▶ West Warwick, RI: Arson Investigation w/ arrest
- ▶ Exeter, RI: Super storm Sandy: Damage Assessment
- ▶ Wyoming, RI: Washington County Fair: Situational Awareness

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