

APPENDIX M
RAILCAR UNLOADING AREA WEST

2006 Railcar Unloading Area West (looking south)
Railcar tracks ran east-west. Concrete foundation in this panoramic photo
is a single foundation that runs east-west



1996 Railcar Unloading Area West (looking northeast[upper photo] and northwest [lower photo])

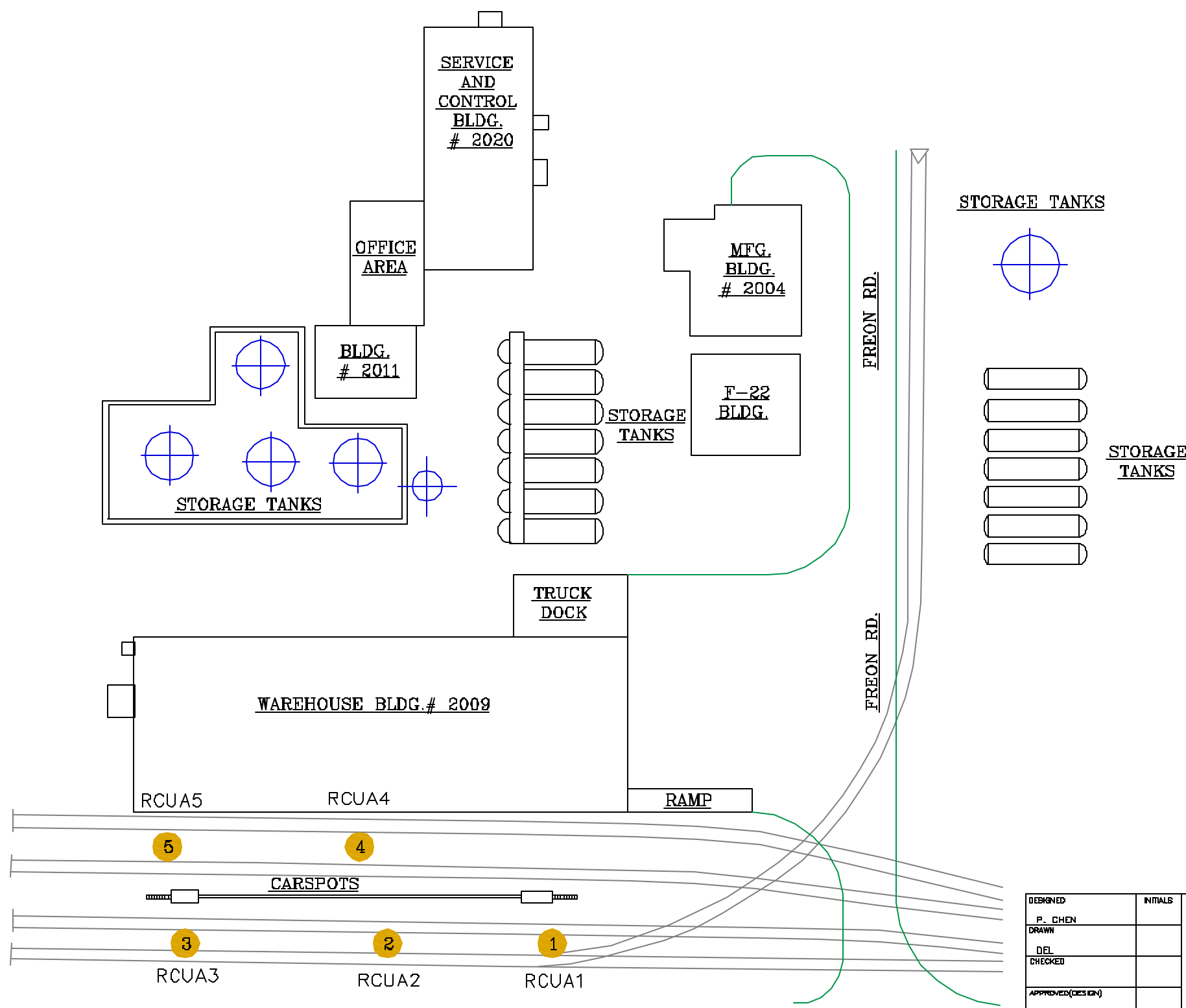
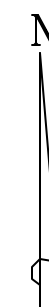
RCUA markers note location of soil borings



RAILCAR UNLOADING AREA
(RCUA)
Soil Boring Locations

DuPont Montague Facility
Montague Michigan

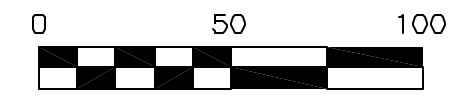




LEGEND


RAILCAR TRACK

BORING LOCATION



SCALE IN FEET

DESIGNED	INITIALS
P. CHEN	
DRAWN	
DEL. CHECKED	
APPROVED(DESIGN)	
APPROVED(CONSTRUCTION)	



Corporate Remediation Group
*An Alliance between
 DuPont and URS Diamond*

Barley Mill Plaza, Building 19
 Wilmington, Delaware 19805

RAILCAR UNLOADING AREA – WEST 1996 BORING LOCATION MAP			
DuPont Montague Montague, Michigan			
SCALE 1"=50'	DATE 11/1/06	DWG FILE NO. 48108002	FIGURE 1

DuPont In-House Review (DDR)

The DDR is an automated internal review process used by the ADQM group to determine if the data is usable. The data is run through this automated program where a series of checks are performed on the data. The data is evaluated against hold time criteria, checked for blank contamination, assessed against matrix spike(MS)/matrix spike duplicate (MSD) recoveries, assessed against relative percent differences (RPDs) between these samples, assessed against laboratory control sample(LCS)/control sample duplicate (LCSD) recoveries, assessed against RPDs between these samples, assessed against RPDs between laboratory replicates, and assessed against surrogate spike recoveries. The DDR applies the following data qualifiers to analysis results, as warranted:

Qualifier	Definition
B	Not detected substantially above the level reported in the laboratory or field blanks.
R	Unusable result. Analyte may or may not be present in the sample.
J	Analyte present. Reported value may not be accurate or precise.
UJ	Not detected. Reporting limit may not be accurate or precise.

Laboratory Qualifiers

The laboratory may have applied one or more of the following data qualifiers to analysis results, as warranted:

DIL	The concentration is estimated or not reported due to dilution or to the presence of interfering analytes.
NC	The recovery and or RPD were not calculated.
J	Estimated value; result falls between method detection limit (mdl) and practical quantitation limit (pql).
U	Analyte was not detected at the specified reporting limit
B	Analyte concentration is not significantly greater than that detected in an associated method blank.

J	Estimated value; result falls between method detection limit (mdl) and practical quantitation limit (pql).
*	Surrogate recovery is outside stated control limits.
J	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
B	Estimated result. Result is less than reporting limit (RL)
Q	Elevated reporting limit. The reporting limit is elevated because sample dilution was required to bring target compounds within calibration range of the analytical system.
G	Elevated reporting limit. The reporting limit is elevated because sample dilution was required for analysis due to matrix interference.

These lab qualifiers are applied independent of DuPont In-House Data Review (DDR) qualifiers.

Appendix M
Table 1
Railcar West Soils vs Industrial Direct Contact

				Sample ID	RCUA-1	RCUA-1B	RCUA-2	RCUA-2B	RCUA-3-1	RCUA-3-2	RCUA-3B-1
				Date	10/25/96	10/28/96	10/25/96	10/28/96	10/25/96	10/25/96	10/28/96
				Top (ft)							
Analyte	units	Total (T)/ Diss. (D)	Screening Criteria	Bottom (ft) Duplicate #							
1,1,1-TRICHLOROETHANE	ug/kg	T	460000		<1.	<1.	<1.	<1.	<1.	<1.	<1.
CARBON TETRACHLORIDE	ug/kg	T	390000		1. J	<1.	<1.	<1.	<1.	<1.	<1.
TETRACHLOROETHYLENE	ug/kg	T	88000		<1.	<1.	7	<1.	1. J	3. J	3. J
TRICHLOROETHENE	ug/kg	T	500000		<1.	<1.	<1.	<1.	<1.	<1.	<1.
FLUORIDE	ug/kg	T	67000000		960 J	<730	<720	800 J	<720	1300	<730
PERCENT MOISTURE	% BY WT.	T			3.44	3.93	3	3.09	2.83	3.34	4.03

Criteria = MDEQ 27 Soil Direct Contact Indust/Comm II #27 12/2004

* and shaded cells = Concentration above criteria (NDs [**] assumed to be 50% reporting limit)

< and ND = Non detect at stated reporting limit

Appendix M
Table 1
Railcar West Soils vs Industrial Direct Contact

				Sample ID	RCUA-4	RCUA-4B	RCUA-5	RCUA-5B
				Date	10/25/96	10/28/96	10/25/96	10/28/96
				Top (ft)				
				Bottom (ft)				
Analyte	units	Total (T)/ Diss. (D)	Screening Criteria	Duplicate #	1	1	1	1
1,1,1-TRICHLOROETHANE	ug/kg	T	460000		<1.	<1.	<1.	<1.
CARBON TETRACHLORIDE	ug/kg	T	390000		<1.	<1.	<1.	<1.
TETRACHLOROETHYLENE	ug/kg	T	88000		34	3. J	1. J	<1.
TRICHLOROETHENE	ug/kg	T	500000		<1.	<1.	<1.	<1.
FLUORIDE	ug/kg	T	67000000		1200	2900	820 J	2000
PERCENT MOISTURE	% BY WT.	T			4.96	3.85	3.22	5.74

Criteria = MDEQ 27 Soil Direct Contact Indust/Comm II #27 12/2004

* and shaded cells = Concentration above criteria (NDs [**] assumed to be 50% reporting limit)

< and ND = Non detect at stated reporting limit

Appendix M
Table 2
Railcar West Soils vs Industrial Drinking Water Protection

				Sample ID	RCUA-1	RCUA-1B	RCUA-2	RCUA-2B	RCUA-3-1	RCUA-3-2	RCUA-3B-1
				Date	10/25/96	10/28/96	10/25/96	10/28/96	10/25/96	10/25/96	10/28/96
				Top (ft)							
		Total (T)/ Diss. (D)	Screening Criteria	Bottom (ft) Duplicate #							
Analyte	units				1	1	1	1	1	1	1
1,1,1-TRICHLOROETHANE	ug/kg	T	4000		<1.	<1.	<1.	<1.	<1.	<1.	<1.
CARBON TETRACHLORIDE	ug/kg	T	100		1. J	<1.	<1.	<1.	<1.	<1.	<1.
TETRACHLOROETHYLENE	ug/kg	T	100		<1.	<1.	7	<1.	1. J	3. J	3. J
TRICHLOROETHENE	ug/kg	T	100		<1.	<1.	<1.	<1.	<1.	<1.	<1.
FLUORIDE	ug/kg	T	40000		960 J	<730	<720	800 J	<720	1300	<730
PERCENT MOISTURE	% BY WT.	T			3.44	3.93	3	3.09	2.83	3.34	4.03

Criteria = MDEQ 21B Soil Indust DW Protection #21B 12/2004

* and shaded cells = Concentration above criteria (NDs [**] assumed to be 50% reporting limit)

< and ND = Non detect at stated reporting limit

Appendix M
Table 2
Railcar West Soils vs Industrial Drinking Water Protection

				Sample ID	RCUA-4	RCUA-4B	RCUA-5	RCUA-5B
				Date	10/25/96	10/28/96	10/25/96	10/28/96
				Top (ft)				
		Total (T)/	Screening	Bottom (ft)				
Analyte	units	Diss. (D)	Criteria	Duplicate #	1	1	1	1
1,1,1-TRICHLOROETHANE	ug/kg	T	4000		<1.	<1.	<1.	<1.
CARBON TETRACHLORIDE	ug/kg	T	100		<1.	<1.	<1.	<1.
TETRACHLOROETHYLENE	ug/kg	T	100		34	3. J	1. J	<1.
TRICHLOROETHENE	ug/kg	T	100		<1.	<1.	<1.	<1.
FLUORIDE	ug/kg	T	40000		1200	2900	820 J	2000
PERCENT MOISTURE	% BY WT.	T			4.96	3.85	3.22	5.74

Criteria = MDEQ 21B Soil Indust DW Protection #21B 12/2004

* and shaded cells = Concentration above criteria (NDs [**] assumed to be 50% reporting limit)

< and ND = Non detect at stated reporting limit