WESTON
MANAGERS DESIGNERS/CONSULTANTS

RARITAN PLAZA #1
4TH FLOOR
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30 September 1992

Ms. Christine Purcell
Bureau of Federal Case Management
New Jersey Department of Environmental Protection and Energy
Division of Responsible Party Site Remediation
CN 028
Trenton, New Jersey 08625-0028

W.O. No. 06720-002-005

RE: CORRECTION OF WATER LEVEL DATA TABLES AND MAPS
L.E. CARPENTER REMEDIAL INVESTIGATION

Dear Ms. Purcell:

Subsequent to the submittal of the report entitled **"Final Supplemental Remedial Investigation Addendum for L.E. Carpenter and Company"**, errors were discovered in Tables 3-1 and 3-2 of the report for three wells. The errors are in the corrected water level elevations for monitor wells MW-6, MW-10 and MW-11S. For your convenience, I have enclosed revised versions of these tables and the corresponding equipotential maps. The changes can be summarized as follows:

Table 3-1. Corrected Water Level Elevation (FT. MSL).

	RI Report Version	Revised Version
MW-6	630.89	624.05
MW-10	624.20	624.67
MW-11S	631.76	624.41

Table 3-2. Corrected Water Level Elevation (FT. MSL).

	RI Report Version	Revised Version
MW-6	631.10	625.56
MW-10	624.69	625.65

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You will note that these changes have the effect of reducing the large mound in the equipotential surface near the central portion of the site. Since these data sets were not used in generating the mean shallow aquifer zone equipotential map for 1991, Figure 3-15 is unaffected by these changes. Furthermore, these changes do not affect the conclusions regarding the overall flow patterns at the site (i.e., the Rockaway River is still a recharge boundary and shallow groundwater discharge still occurs along the Air Products drainage ditch.

During his field visit on 23 September, 1992 George Blyskun asked Ken Tyson to check the depth-to-water values for MW-11I and MW-11D on the original Table 3-2 to see if these numbers might be reversed. Mr. Tyson subsequently went back to the field notes and confirmed that the values as presented in the original Table 3-2 are indeed correct.

If you have any questions concerning these tables and maps please feel free to contact me at (908) 225-3990.

Very truly yours,

ROY F. WESTON, INC.

Martin O'Neill

Martin O'Neill, C.H.M.M.
Senior Project Manager

Enclosures: two (2) tables and two (2) equipotential maps

cc: C. Anderson, L.E. Carpenter
R. Hahn, L.E. Carpenter
J. Josephs, USEPA-Region II

TABLE 3-1. WATER LEVEL ELEVATION AND PRODUCT THICKNESS DATA
MEASURED ON FEBRUARY 27, 1992, L.E. CARPENTER SITE, WHARTON, NJ.

WELL	MEASURING PT. ELEVATION (FT MSL)	DEPTH TO PRODUCT (FT)	DEPTH TO WATER (FT)	PRODUCT THICKNESS OR SHEEN OBSERVATIONS (FT)	OBSERVED WATER LEVEL ELEVATION (FT MSL)	CORRECTED WATER LEVEL ELEVATION (FT MSL)
MW-001	638.97	13.91	14.74	0.83	624.23	624.94
MW-002	633.39		9.32	0.00	624.07	624.07
MW-003	632.27		7.75	0.00	624.52	624.52
MW-004	632.31	7.60	7.85	0.25	624.46	624.68
MW-005	632.20		7.50	0.00	624.70	624.70
MW-006	632.00		7.95	0.00	624.05	624.05
MW-007	630.68		5.22	0.00	625.46	625.46
MW-008	628.79		2.95	0.00	625.84	625.84
MW-009	630.18		4.78	0.00	625.40	625.40
MW-010	633.65	8.90	9.45	0.55	624.20	624.67
MW-11S	632.96		8.55	0.00	624.41	624.41
MW-11I	632.82		8.21	0.00	624.61	624.61
MW-11D	632.42		5.25	0.00	627.17	627.17
MW-12S	633.18	7.88	ALL PRODUCT	6.53	ALL PRODUCT	ALL PRODUCT
MW-12I	633.06		8.62	0.00	624.44	624.44
MW-13S	631.23		6.55	0.00	624.68	624.68
MW-13I	630.66		6.20	0.00	624.46	624.46
MN-14S	628.51		4.16	0.00	624.35	624.35
MW-14I	628.23		3.91	0.00	624.32	624.32
MW-14D	628.53		1.90	0.00	626.63	626.63
MW-15S	636.77		11.79	0.00	624.98	624.98
MW-15I	636.66		11.62	0.00	625.04	625.04
MW-16S	634.47		8.93	0.00	625.54	625.54
MW-16I	634.96		9.92	0.00	625.04	625.04
MW-17S	634.74		9.90	0.00	624.84	624.84
MW-17D	634.86		9.80	0.00	625.06	625.06
MW-18S	631.26		6.41	0.00	624.85	624.85
MW-18I	631.04		6.00	0.00	625.04	625.04
MW-18D	630.77		4.92	0.00	625.85	625.85
MW-019	638.88		13.75	0.00	625.13	625.13
MW-020	636.77		11.26	0.00	625.51	625.51
MW-021	628.80		4.65	0.00	624.15	624.15
MW-022	628.74		4.40	0.00	624.34	624.34
MW-023	630.64		2.85	0.00	627.79	627.79
MW-024	629.03		3.45	0.00	625.58	625.58
MW-025	627.33		3.51	0.00	623.82	623.83
RW-001	637.38		13.25	0.00	624.13	624.13
RW-002	631.68		7.30	0.00	624.38	624.38
RW-003	631.99		7.06	0.00	624.93	624.93
GEI-1I	630.78		5.48	0.00	625.30	625.30
GEI-2S	637.27		11.94	0.00	625.33	625.33
GEI-2I	637.27		12.12	0.00	625.15	625.15
GEI-3I	639.85		14.38	0.00	625.47	625.47

* Estimated water level elevation calculated using a product specific gravity of 0.86.

** Measuring point elevation corrected to top of plastic cover casing.

TABLE 3-1 CONTINUED. WATER LEVEL ELEVATION AND PRODUCT THICKNESS DATA MEASURED ON FEBRUARY 27, 1992, L.E. CARPENTER SITE, WHARTON, NJ.

MEASURING PT.	ELEVATION OF MEASURING Pt. (FT. MSL)	DEPTH TO WATER (FT.)	WATER LEVEL ELEVATION (FT. MSL)
DC-P0	625.73	2.50	623.23
DC-P1	625.26	2.00	623.26
DC-P2	626.79	2.20	624.59
DC-P3	625.22	2.00	623.22
DC-P4	625.10	2.10	623.00
DC-P5	625.16	3.45	621.71
RP-01	629.65	2.85	626.80
RP-02	627.75	1.60	626.15
RP-03	627.11	2.50	624.61

TABLE 3-2. WATER LEVEL ELEVATION AND PRODUCT THICKNESS DATA
MEASURED ON APRIL 7, 1992, L.E. CARPENTER SITE, WHARTON, NJ.

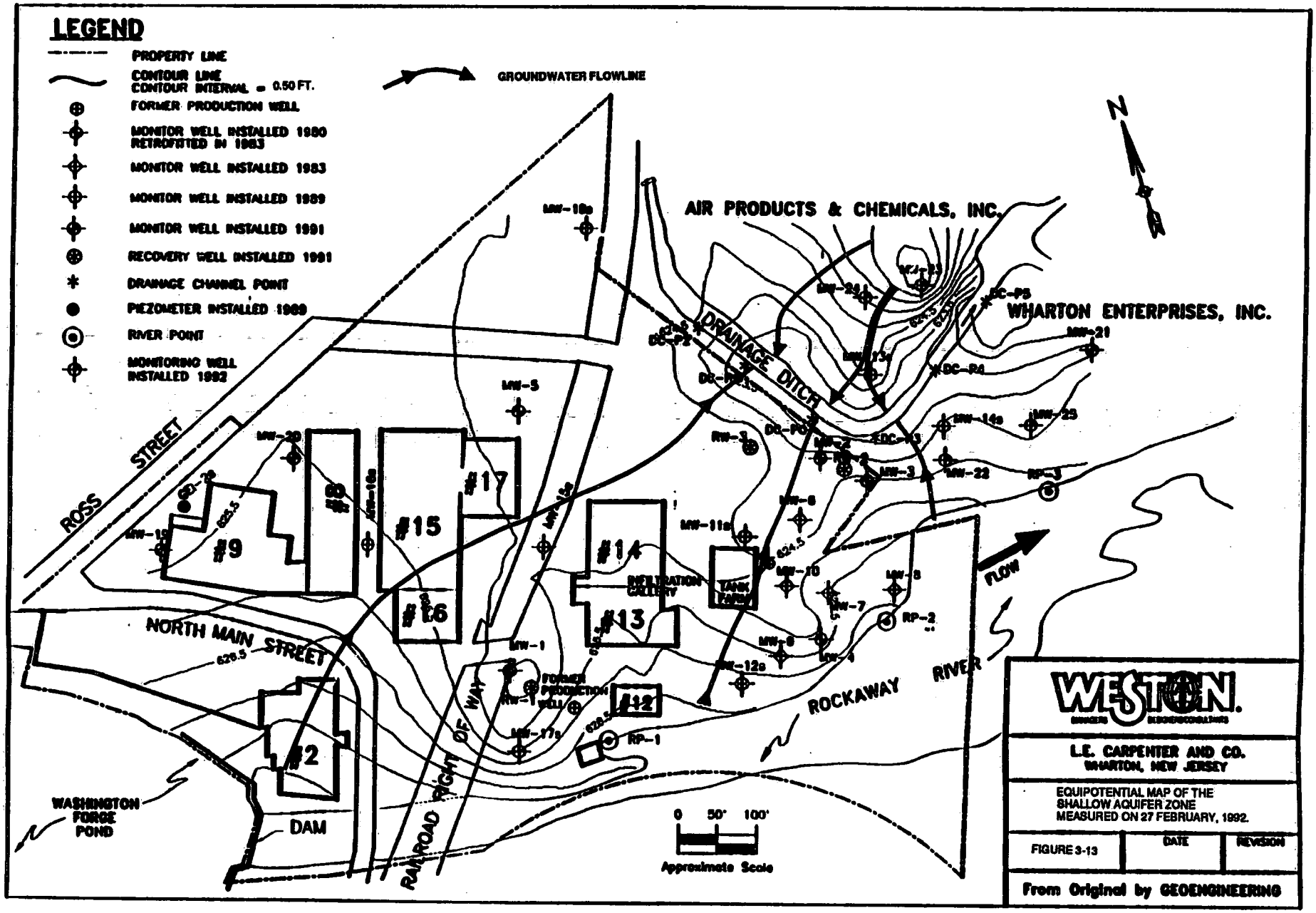
WELL	MEASURING PT. ELEVATION (FT MSL)	DEPTH TO PRODUCT (FT)	DEPTH TO WATER (FT)	PRODUCT THICKNESS OR SHEEN OBSERVATIONS (FT)	OBSERVED WATER LEVEL ELEVATION (FT MSL)	CORRECTED WATER LEVEL ELEVATION (FT MSL)
MW-001	638.97	12.64	14.40	1.76	624.57	626.08
MW-002	633.39		8.92	0.00	624.47	624.47
MW-003	632.27	6.90	7.20	0.30	625.07	625.07
MW-004	632.31	6.62	6.64	0.02	625.67	625.69
MW-005	632.20		6.18	0.00	626.02	626.02
MW-006	632.00		6.44	0.00	625.56	625.56
MW-007	630.68		4.84	0.00	625.84	625.84
MW-008	628.79		2.82	0.00	625.97	625.97
MW-009	630.18		5.62	0.00	624.56	624.56
MW-010	633.65	7.84	8.96	1.12	624.69	625.65
MW-11S	632.96	4.12	ALL PRODUCT	10.29	ALL PRODUCT	ALL PRODUCT
MW-11I	632.82		3.98	0.00	628.84	628.84
MW-11D	632.42		7.08	0.00	625.34	625.34
MW-12S	633.18	7.34	ALL PRODUCT	7.07	ALL PRODUCT	ALL PRODUCT
MW-12I	633.06		7.28	0.00	625.78	625.78
MW-13S	631.23		5.62	0.00	625.61	625.61
MW-13I	630.66		5.18	0.00	625.48	625.48
MW-14S	628.51		3.25	SHEEN	625.26	625.26
MW-14I	628.23		3.88	0.00	624.35	624.35
MW-14D	628.53		0.20	0.00	628.33	628.33
MW-15S	636.77		10.70	0.00	626.07	626.07
MW-15I	636.66		10.60	0.00	626.06	626.06
MW-16S	634.47		7.85	0.00	626.62	626.62
MW-16I	634.96		8.25	0.00	626.71	626.71
MW-17S	634.74		8.44	0.00	626.30	626.30
MW-17D	634.86		8.50	0.00	626.36	626.36
MW-18S	631.26		5.65	0.00	625.61	625.61
MW-18I	631.04		5.14	0.00	625.90	625.90
MW-18D	630.77		2.95	0.00	627.82	627.82
MW-019	638.88		11.90	0.00	626.98	626.98
MW-020	636.77		10.18	0.00	626.59	626.59
MW-021	628.80		3.72	0.00	625.08	625.08
MW-022	628.74		3.38	SHEEN	625.36	625.36
MW-023	630.64		3.48	0.00	627.16	627.16
MW-024	629.03		2.70	0.00	626.33	626.33
MW-025	627.33		2.12	0.00	625.21	625.21
RW-001	637.38		11.30	SHEEN	626.08	626.08
RW-002	631.68		6.30	SHEEN	625.38	625.38
RW-003	631.99		6.35	SHEEN	625.64	625.64
GEI-1I	630.78		4.78	0.00	626.00	626.00
GEI-2S	637.27		10.78	0.00	626.49	626.49
GEI-2I	637.27		10.75	0.00	626.52	626.52
GEI-3I	639.85		12.95	0.00	626.90	626.90

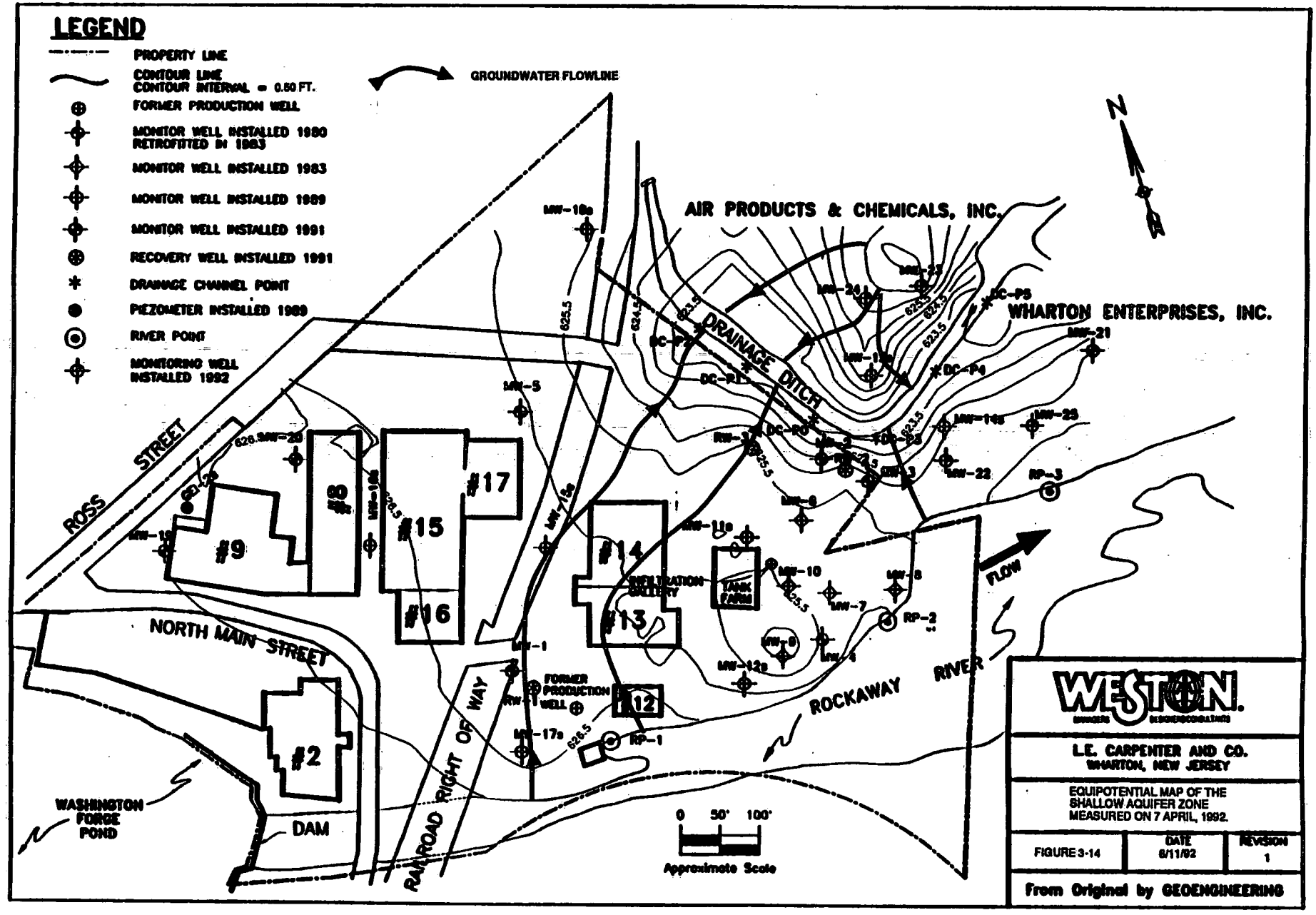
* Estimated water level elevation calculated using a product specific gravity of 0.86.

** Measuring point elevation corrected to top of plastic cover casing.

TABLE 3-2 CONTINUED. WATER LEVEL ELEVATION AND PRODUCT THICKNESS DATA MEASURED ON APRIL 7, 1992, L.E. CARPENTER SITE, WHARTON, NJ.

MEASURING PT.	ELEVATION OF MEASURING PT. (FT. MSL)	DEPTH TO WATER (FT.)	WATER LEVEL ELEVATION (FT. MSL)
DC-P0	625.73	2.50	623.23
DC-P1	625.26	1.83	623.43
DC-P2	626.79	3.33	623.46
DC-P3	625.22	2.08	623.14
DC-P4	625.10	2.00	623.10
DC-P5	625.16	2.17	622.99
RP-01	629.65	2.90	626.75
RP-02	627.75	1.72	626.03
RP-03	627.11	2.46	624.65


LEGEND
PROPERTY LINE
CONTOUR LINE
CONTOUR INTERVAL = 0.50 FT.
FORMER PRODUCTION WELL
MONITOR WELL INSTALLED 1980 RETROFITTED IN 1983
MONITOR WELL INSTALLED 1983
MONITOR WELL INSTALLED 1989
MONITOR WELL INSTALLED 1991
RECOVERY WELL INSTALLED 1991
DRAINAGE CHANNEL POINT
PIEZOMETER INSTALLED 1989
RIVER POINT
MONITORING WELL INSTALLED 1992
GROUNDWATER FLOWLINE
N
AIR PRODUCTS & CHEMICALS, INC.
WHARTON ENTERPRISES, INC.
DRAINAGE DITCH
ROSS STREET
NORTH MAIN STREET
ROCKAWAY RIVER
FLOW
RAILROAD RIGHT OF WAY
WASHINGTON FORGE POND
DAM
#9
#2
#15
#17
#16
#14
#13
#12
INFILTRATION GALLERY
TANK FARM
FORMER PRODUCTION WELL
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7
MW-8
MW-10
MW-11s
MW-12s
MW-14s
MW-15
MW-17s
MW-18s
MW-20
MW-21
MW-22
MW-23
MW-24s
RW-1
RW-3
RP-1
RP-2
RP-3
DC-P2
DC-P3
DC-P4
DC-P5
626.5
624.5
0 50' 100'
Approximate Scale
WESTON
L.E. CARPENTER AND CO.
WHARTON, NEW JERSEY
EQUIPOTENTIAL MAP OF THE SHALLOW AQUIFER ZONE MEASURED ON 27 FEBRUARY, 1992.
FIGURE 3-13
DATE
REVISION
From Original by GEOENGINEERING


LEGEND
PROPERTY LINE
CONTOUR LINE
CONTOUR INTERVAL = 0.50 FT.
FORMER PRODUCTION WELL
MONITOR WELL INSTALLED 1980 RETROFITTED IN 1983
MONITOR WELL INSTALLED 1983
MONITOR WELL INSTALLED 1989
MONITOR WELL INSTALLED 1991
RECOVERY WELL INSTALLED 1991
DRAINAGE CHANNEL POINT
PIEZOMETER INSTALLED 1989
RIVER POINT
MONITORING WELL INSTALLED 1992
GROUNDWATER FLOWLINE
N
AIR PRODUCTS & CHEMICALS, INC.
WHARTON ENTERPRISES, INC.
DRAINAGE DITCH
ROSS STREET
NORTH MAIN STREET
RAILROAD RIGHT OF WAY
ROCKAWAY RIVER
FLOW
WASHINGTON FORGE POND
DAM
#2
#8
#9
#12
#13
#14
#15
#16
#17
TANK FARM
INFILTRATION GALLERY
FORMER PRODUCTION WELL
MW-1
MW-3
MW-5
MW-6
MW-7
MW-8
MW-9
MW-10
MW-11s
MW-12s
MW-14s
MW-15s
MW-16s
MW-17s
MW-18s
MW-19
MW-20
MW-21
MW-22
MW-23
MW-24
DC-P1
DC-P2
DC-P3
DC-P4
DC-P5
RW-1
RW-3
RP-1
RP-2
RP-3
626
625.5
624.5
623.5
0 50' 100'
Approximate Scale
WESTON
L.E. CARPENTER AND CO.
WHARTON, NEW JERSEY
EQUIPOTENTIAL MAP OF THE SHALLOW AQUIFER ZONE MEASURED ON 7 APRIL, 1992.
FIGURE 3-14
DATE 6/11/92
REVISION 1
From Original by GEOENGINEERING