

**Appendix A
Well Abandonment Log
Hoffmann-La Roche Inc. - Nutley, NJ**

Well Designation	Hydro-geologic Zone	Investigation Area (IA)	Well Status	Well Type	Permit Number	Date Installed	Date Decommissioned	East (X) (NJSP, NAD83)	North (Y) (NJSP, NAD83)	NJDEP Decommissioning Form Included in this Report
186RI-MW3	S1	IA-10	decommissioned	monitoring	E201305808	04/30/13	09/23/16	586490.1	729795.9	X
186RI-MW4	S1	IA-10	decommissioned	monitoring	E201306018	05/07/13	09/23/16	586555.8	729663.8	X
187RI-MW1	S1	IA-10	decommissioned	monitoring	E201305797	05/01/13	04/09/15	586556.4	729325.5	X
22RI-MW1	S1	IA-10	decommissioned	monitoring	E201306290	05/07/13	10/13/16	586562.5	729829.5	X
23RI-MW1	S1	IA-10	decommissioned	monitoring	E201306683	05/15/13	04/09/15	586452.2	729780.2	X
26RI-MW1	S1	IA-10	decommissioned	monitoring	No Permit	05/20/13	02/23/17	586300.2	729312.7	X
53RI-MW1	S1	IA-10	decommissioned	monitoring	E201304935	04/18/13	04/09/15	586119.1	730247.4	X
53RI-MW4	S1	IA-10	decommissioned	monitoring	E201304941	04/16/13	09/23/16	586029.0	730097.5	X
53RI-MW5	S1	IA-10	decommissioned	monitoring	E201304943	04/19/13	04/09/15	586040.4	730240.1	X
66RI-MW1	S1	IA-10	decommissioned	monitoring	E201304921	04/15/13	04/09/15	586407.8	730581.1	X
66RI-MW5	S1	IA-10	decommissioned	monitoring	E201305780	05/02/13	09/23/16	586597.5	730080.7	X
66RI-MW6	S1	IA-10	decommissioned	monitoring	E201305781	05/02/13	04/09/15	586467.8	730110.7	X
66RI-MW7	S1	IA-10	decommissioned	monitoring	E201305782	05/02/13	03/19/15	586346.3	730204.1	X
ART-1	S1	IA-02	decommissioned	IWAS	E201310112	07/31/13	10/17/14	587083.1	729371.4	X
ART-16	S2	IA-07	decommissioned	IWAS	E201500481	02/05/15	08/10/17	587387.3	728472.8	
ART-2	S1	IA-02	decommissioned	IWAS	E201310113	08/02/13	10/17/14	587117.7	729332.7	X
ART-3	S2	IA-02	decommissioned	IWAS	E201310114	08/06/13	10/17/14	587102.5	729383.2	X
ART-92	S2	IA-07	decommissioned	IWAS	E201514694	01/19/16	08/09/17	587604.0	728994.0	
ART-MW-1	S1	IA-02	decommissioned	monitoring	E201310219	07/29/13	10/17/14	587122.0	729334.0	X
ART-MW-2	S1	IA-02	decommissioned	monitoring	E201310220	07/30/13	10/17/14	587094.2	729381.3	X
ART-MW-2AR	S1	IA-02	decommissioned	monitoring	E201501059	03/03/15	11/20/15	587099.7	729378.9	X
ART-MW-3	S1	IA-02	decommissioned	monitoring	E201310221	07/29/13	10/17/14	587062.6	729385.8	X
ART-MW-3AR	S1	IA-02	decommissioned	monitoring	E201501060	03/17/15	11/20/15	587061.2	729380.3	X
ART-MW-4	S1	IA-02	decommissioned	monitoring	E201310222	07/30/13	10/17/14	587104.1	729311.0	X
ART-MW-5	S1	IA-02	decommissioned	monitoring	E201310117	07/31/13	10/17/14	587105.1	729363.7	X
ART-MW-6	S2	IA-02	decommissioned	monitoring	E201310118	07/31/13	10/17/14	587090.3	729399.2	X
ART-VP-1	S1	IA-02	decommissioned	vapor point	E201309591	07/18/13	10/17/14	587085.7	729375.1	X
ART-VP-10	S1	IA-02	decommissioned	vapor point	E201309755	07/24/13	10/17/14	587118.1	729371.5	X
ART-VP-11	S1	IA-02	decommissioned	vapor point	E201309756	07/25/13	10/17/14	587107.1	729379.4	X
ART-VP-12	S1	IA-02	decommissioned	vapor point	E201309757	07/23/13	10/17/14	587116.2	729403.3	X
ART-VP-2	S1	IA-02	decommissioned	vapor point	E201309594	07/19/13	10/17/14	587090.9	729383.6	X
ART-VP-3	S1	IA-02	decommissioned	vapor point	E201309599	07/22/13	10/17/14	587077.7	729362.3	X
ART-VP-4	S1	IA-02	decommissioned	vapor point	E201309600	07/23/13	10/17/14	587067.3	729345.7	X
ART-VP-5	S1	IA-02	decommissioned	vapor point	E201309686	07/19/13	10/17/14	587096.1	729392.8	X
ART-VP-6	S1	IA-02	decommissioned	vapor point	E201309688	07/29/13	10/17/14	587091.5	729346.9	X
ART-VP-7	S1	IA-02	decommissioned	vapor point	E201309689	07/23/13	10/17/14	587064.5	729341.3	X
ART-VP-8	S1	IA-02	decommissioned	vapor point	E201309690	07/30/13	10/17/14	587125.4	729327.8	X
ART-VP-9	S1	IA-02	decommissioned	vapor point	E201309747	07/24/13	10/17/14	587128.1	729349.4	X
CGSVE-1	S1	IA-06	decommissioned	SVE	E201314605	10/14/13	03/19/15	586855.1	729281.8	X
CGVP-1	S1	IA-06	decommissioned	vapor point	E201315037	10/17/13	06/30/15	586865.8	729298.6	X
CGVP-10	S1	IA-06	decommissioned	vapor point	E201315046	10/18/13	06/23/15	586832.8	729213.7	X
CGVP-12	S1	IA-06	decommissioned	vapor point	E201315048	10/18/13	02/04/16	586810.7	729221.0	X
CGVP-2	S1	IA-06	decommissioned	vapor point	E201315038	10/17/13	06/30/15	586860.2	729289.9	X
CGVP-9	S1	IA-06	decommissioned	vapor point	E201315045	10/18/13	06/23/15	586835.4	729217.9	X
CH-1 ⁽¹⁾	D4	IA-06	converted to well	monitoring	2600065933	10/25/02	08/28/14	586730.7	729042.1	
CH-10 ⁽²⁾	D3	IA-04	converted to well	monitoring	2600069274	10/27/03	10/03/13	587485.1	729462.0	
CH-11 ⁽³⁾	D3	IA-12	converted to well	monitoring	P200910166	08/27/09	04/04/13	587880.7	729676.2	
CH-12 ⁽⁴⁾	D3	IA-12	converted to well	monitoring	P200910167	08/24/09	04/06/13	588636.3	729143.6	
CH-13	D3	IA-03	decommissioned	monitoring	P200910168	10/20/09	10/22/13	588338.5	728935.2	
CH-13A	D4	IA-03	decommissioned	monitoring	E201310614	08/14/13	10/22/13	588338.5	728935.2	X
CH-14 ⁽⁵⁾	D3	IA-03	converted to well	monitoring	P200910163	11/05/09	05/09/14	587955.4	728938.0	
CH-15	D3	IA-09	decommissioned	monitoring	N/A	10/05/09	04/26/13	587286.3	728875.5	X
CH-16 ⁽⁶⁾	D3	IA-07	converted to well	monitoring	P200910152	09/18/09	10/13/14	588060.3	728471.4	
CH-17 ⁽⁷⁾	D3	IA-11	converted to well	monitoring	P200910156	09/28/09	12/15/11	587207.6	728161.3	
CH-18	D3	IA-07	decommissioned	monitoring	P200910164	10/30/09	04/08/13	587962.3	728026.5	X
CH-19 ⁽⁸⁾	D3	IA-13	converted to well	monitoring	P200910165	10/13/09	08/14/13	587671.1	727619.7	
CH-2 ⁽⁹⁾	D4	IA-10	converted to well	monitoring	2600066034	11/15/02	03/29/13	586515.6	730464.2	
CH-20 ⁽¹⁰⁾	D3	IA-07	converted to well	monitoring	P200910154	09/09/09	07/16/14	588155.4	728346.1	
CH-3 ⁽¹¹⁾	D3	IA-10	converted to well	monitoring	2600069525	01/20/04	04/02/13	585932.2	729997.3	

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CH-4 ⁽¹²⁾	D3	IA-10	converted to well	monitoring	2600068945	09/15/03	04/05/13	586504.9	729748.3	
CH-5 ⁽¹³⁾	D3	IA-10	converted to well	monitoring	2600068946	09/24/03	03/28/14	586754.1	728567.8	
CH-6 ⁽¹⁴⁾	D4	IA-09	converted to well	monitoring	2600069196	10/09/03	10/02/13	587325.3	729133.3	
CH-7 ⁽¹⁵⁾	D3	IA-07	converted to well	monitoring	2600069275	10/16/03	03/07/13	587796.5	728561.5	
CH-8 ⁽¹⁶⁾	D3	IA-04	converted to well	monitoring	2600069273	11/04/03	04/02/13	587027.5	729652.5	
CH-9 ⁽¹⁷⁾	D3	IA-10	converted to well	monitoring	2600069276	10/22/03	04/03/13	586530.2	728779.7	
DW-10B	D1	IA-11	decommissioned	monitoring	E201218106	01/14/13	08/08/17	587173.6	728451.2	
DW-10C	D2	IA-11	decommissioned	monitoring	E201218107	01/15/13	08/08/17	587159.8	728460.1	
DW-12C	D3	IA-04	decommissioned	monitoring	E201301051	04/02/13	09/30/14	587027.5	729652.5	X
DW-13D	D3	IA-10	decommissioned	monitoring	E201301053	04/03/13	10/30/14	586530.2	728779.7	X
DW-15B	D2	IA-10	decommissioned	monitoring	E201300234	02/19/13	10/29/14	586536.7	730450.1	X
DW-19D	D3	IA-13	decommissioned	monitoring	E201310393	08/14/13	10/31/14	587671.0	727619.6	X
DW-56A	D1	IA-07	decommissioned	monitoring	E201412868	12/10/14	08/17/17	588140.1	728823.4	
EGSVE-1	S1	IA-06	decommissioned	SVE	E201305505	04/23/13	03/19/15	586980.3	729170.1	X
EGSVE-2	S1	IA-06	decommissioned	SVE	E201306268	05/07/13	03/19/15	586998.8	729171.0	X
EGSVE-3	S1	IA-06	decommissioned	SVE	E201306270	05/07/13	03/19/15	586952.5	729197.1	X
EGSVE-4	S1	IA-06	decommissioned	SVE	E201307288	05/29/13	03/19/15	587001.5	729175.5	X
EGVP-1	S1	IA-06	decommissioned	vapor point	E201305511	04/24/13	03/19/15	587001.6	729203.6	X
EGVP-2	S1	IA-06	decommissioned	vapor point	E201305514	04/23/13	03/19/15	586986.0	729179.1	X
EGVP-20	S1	IA-06	decommissioned	vapor point	E201309777	07/17/13	03/19/15	587046.6	729191.1	X
EGVP-22	S1	IA-06	decommissioned	vapor point	E201309795	07/17/13	03/19/15	587024.8	729153.9	X
EGVP-3	S1	IA-06	decommissioned	vapor point	E201305515	04/23/13	03/19/15	586976.5	729173.2	X
EGVP-31	S1	IA-06	decommissioned	vapor point	E201310082	07/15/13	07/17/15	586980.8	729131.9	X
EGVP-4	S1	IA-06	decommissioned	vapor point	E201305516	04/23/13	03/19/15	586954.4	729187.1	X
EGVP-5	S1	IA-06	decommissioned	vapor point	E201305517	04/23/13	03/19/15	586993.6	729162.5	X
EGVP-6	S1	IA-06	decommissioned	vapor point	E201305521	04/23/13	03/19/15	586976.4	729163.7	X
EGVP-8	S1	IA-06	decommissioned	vapor point	E201305524	04/23/13	03/19/15	586945.2	729190.2	X
EGVP-9	S1	IA-06	decommissioned	vapor point	E201305539	04/23/13	03/19/15	586937.7	729177.8	X
EW-26C	S3	IA-11	decommissioned	Extraction	E201511797	10/20/15	08/18/17	587424.9	727832.8	
IA11-DTS-01	N/A	IA-11	decommissioned	Dewatering	E201610805	09/09/16	N/A	587234.5	728249.6	X
IA11-VP10	S1	IA-11	decommissioned	vapor point	E201508929	08/26/15	08/07/17	587301.2	728217.9	
IA11-VP11	S1	IA-11	decommissioned	vapor point	E201508060	08/27/15	08/07/17	587288.7	728350.4	
IA11-VP12	S1	IA-11	decommissioned	vapor point	E201508061	07/24/15	08/07/17	587269.1	728327.1	
IA11-VP13	S1	IA-11	decommissioned	vapor point	E201508930	08/19/15	08/08/17	587269.5	728196.5	
IA11-VP14	S1	IA-11	decommissioned	vapor point	E201508931	08/20/15	08/08/17	587259.5	728190.1	
IA11-VP15	S1	IA-11	decommissioned	vapor point	E201508932	08/21/15	08/08/17	587251.3	728161.4	
IA11-VP16	S1	IA-11	decommissioned	vapor point	E201508933	08/21/15	08/08/17	587244.8	728192.8	
IA11-VP17	S1	IA-11	decommissioned	vapor point	E201508062	07/21/15	08/08/17	587196.3	728318.7	
IA11-VP18	S1	IA-11	decommissioned	vapor point	E201508063	07/21/15	08/08/17	587171.4	728330.0	
IA11-VP19	S1	IA-11	decommissioned	vapor point	E201508064	07/21/15	08/08/17	587164.5	728302.1	
IA11-VP22	S1	IA-11	decommissioned	vapor point	E201508065	07/30/15	08/14/17	587302.6	727914.2	
IA11-VP23	S1	IA-11	decommissioned	vapor point	E201508066	07/30/15	08/14/17	587280.6	727908.7	
IA11-VP24	S1	IA-11	decommissioned	vapor point	E201508067	07/20/15	08/14/17	587257.6	728046.3	
IA11-VP25	S1	IA-11	decommissioned	vapor point	E201508068	07/20/15	08/14/17	587222.8	728061.2	
IA11-VP26	S1	IA-11	decommissioned	vapor point	E201508069	07/20/15	08/14/17	587208.0	728118.4	
IA11-VP27	S1	IA-11	decommissioned	vapor point	E201508070	07/21/15	08/14/17	587174.7	728118.6	
IA11-VP28	S1	IA-11	decommissioned	vapor point	E201509001	08/18/15	08/14/17	587160.1	728207.7	
IA11-VP29	S1	IA-11	decommissioned	vapor point	E201509002	08/18/15	08/14/17	587147.1	728196.6	
IA11-VP5	S1	IA-11	decommissioned	vapor point	E201508058	07/28/15	08/08/17	587413.3	728106.8	
IA11-VP6	S1	IA-11	decommissioned	vapor point	E201508059	07/24/15	08/08/17	587382.4	728122.9	
IA11-VP7	S1	IA-11	decommissioned	vapor point	E201508926	08/24/15	08/07/17	587360.7	728170.3	
IA11-VP8	S1	IA-11	decommissioned	vapor point	E201508927	08/25/15	08/07/17	587346.7	728199.2	
IA11-VP9	S1	IA-11	decommissioned	vapor point	E201508928	08/25/15	08/07/17	587307.8	728232.1	
IW-118A1	S1	IA-07	decommissioned	injection	E201514676	01/15/16	08/09/17	587628.0	728999.8	
IW-118A2	S1	IA-07	decommissioned	injection	E201514688	01/08/16	08/09/17	587621.2	729003.9	
IW-118B	S2	IA-07	decommissioned	injection	E201514678	01/12/16	08/09/17	587628.0	729000.1	
IW-14	S2	IA-07	decommissioned	injection	E201416604	01/21/15	08/07/17	587381.4	728487.9	
IW-146C	S3	IA-13	decommissioned	injection	E201511687	10/16/15	08/18/17	587515.7	727824.3	
IW-15	S2	IA-07	decommissioned	injection	E201416605	02/06/15	08/07/17	587404.8	728474.1	
IW-151C1	S3	IA-11	decommissioned	injection	E201507923	08/04/15	08/09/17	587366.9	728059.6	

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IW-151C2	S3	IA-11	decommissioned	injection	E201507924	07/30/15	08/14/17	587375.2	728064.5	
IW-153C1	S3	IA-13	decommissioned	injection	E201509582	09/21/15	08/18/17	587443.9	727750.2	
IW-153C2	S3	IA-13	decommissioned	injection	E201509581	09/17/15	08/18/17	587452.8	727754.2	
IW-16	S2	IA-07	decommissioned	injection	E201416606	02/12/15	08/07/17	587400.3	728499.5	
IW-162B	S2	IA-11	decommissioned	injection	E201509293	08/14/15	08/14/17	587238.4	728334.0	
IW-17	S2	IA-07	decommissioned	injection	E201416607	01/12/15	08/07/17	587404.9	728548.0	
IW-18	S2	IA-07	decommissioned	injection	E201416608	01/22/15	08/07/17	587426.0	728525.2	
IW-180A	S1	IA-11	decommissioned	injection	E201511196	09/22/15	09/14/16	587232.7	728240.9	X
IW-19	S1	IA-07	decommissioned	injection	E201500398	01/28/15	08/07/17	587418.4	728550.1	
IW-1C	S3	IA-11	decommissioned	injection	E201405826	06/11/14	08/09/17	587192.5	728197.3	
IW-20	S1	IA-07	decommissioned	injection	E201500399	01/22/15	08/07/17	587430.0	728535.6	
IW-21	S1	IA-07	decommissioned	injection	E201500400	01/29/15	08/07/17	587372.8	728474.5	
IW-22	S1	IA-07	decommissioned	injection	E201500401	01/22/15	08/07/17	587382.6	728460.4	
IW-2C	S3	IA-11	decommissioned	injection	E201405827	07/01/14	08/09/17	587227.8	728187.7	
IW-3C	S3	IA-11	decommissioned	injection	E201405828	07/10/14	08/09/17	587267.6	728159.8	
IW-4C	S3	IA-11	decommissioned	injection	E201406347	07/14/14	08/09/17	587265.6	728167.5	
IW-5C	S3	IA-11	decommissioned	injection	E201406423	06/17/14	09/14/16	587238.0	728226.9	X
IW-7C	S3	IA-11	decommissioned	injection	E201407015	06/25/14	08/08/17	587280.4	728107.2	
MP-WSG-1	S1	IA-06	decommissioned	vapor point	No Permit	12/06/07	04/29/13	586688.0	729267.2	
MP-WSG-10	S1	IA-06	decommissioned	vapor point	2600086714	03/11/08	04/29/13	586663.6	729240.6	X
MP-WSG-11	S1	IA-06	decommissioned	vapor point	2600086715	03/11/08	04/29/13	586655.4	729290.9	X
MP-WSG-12	S1	IA-06	decommissioned	vapor point	2600086716	03/11/08	04/29/13	586681.0	729337.5	X
MP-WSG-2	S1	IA-06	decommissioned	vapor point	No Permit	12/06/07	04/29/13	586674.8	729263.7	
MP-WSG-3	S1	IA-06	decommissioned	vapor point	No Permit	12/06/07	04/29/13	586689.3	729254.9	
MP-WSG-4	S1	IA-06	decommissioned	vapor point	2600086708	03/11/08	04/29/13	586716.1	729347.9	X
MP-WSG-5	S1	IA-06	decommissioned	vapor point	2600086709	03/11/08	04/29/13	586726.0	729311.0	X
MP-WSG-6	S1	IA-06	decommissioned	vapor point	2600086710	03/11/08	04/29/13	586720.4	729276.2	X
MP-WSG-7	S1	IA-06	decommissioned	vapor point	2600086711	03/11/08	04/29/13	586735.8	729233.2	X
MP-WSG-8	S1	IA-06	decommissioned	vapor point	2600086712	03/11/08	04/29/13	586708.8	729206.0	X
MP-WSG-9	S1	IA-06	decommissioned	vapor point	2600086713	03/11/08	04/29/13	586683.9	729224.4	X
MW-10	S1	IA-03	decommissioned	monitoring	2600011831	10/27/87	08/16/17	588022.7	729045.7	
MW-11	S1	IA-03	decommissioned	monitoring	2600011832	10/28/87	07/01/99	587999.8	728946.3	X
MW-115	S2	IA-03	decommissioned	monitoring	P200910161	08/20/09	08/17/17	588353.2	728921.4	
MW-116	S3	IA-03	decommissioned	monitoring	P200910162	10/30/09	08/16/17	587951.6	728915.1	
MW-12	S1	IA-03	decommissioned	monitoring	2600011833	11/10/87	08/17/17	588120.5	728879.4	
MW-125	S1	IA-07	decommissioned	monitoring	E201012850	10/15/10	09/20/16	587596.4	728652.0	X
MW-127	S1	IA-04	decommissioned	monitoring	E201012848	10/12/10	03/23/15	587627.8	729694.4	X
MW-129	S1	IA-10	decommissioned	monitoring	E201012950	10/11/10	04/09/15	586452.9	729784.7	X
MW-13	S1	IA-02	decommissioned	monitoring	2600011834	11/12/87	10/17/14	587038.1	729332.2	X
MW-139 ⁽¹⁸⁾	S1	IA-07	converted to well	monitoring	E201118758	11/16/11	09/26/16	587531.3	729062.9	X
MW-14	S1	IA-09	decommissioned	monitoring	2600011835	11/17/87	05/20/94	587133.0	729236.0	
MW-15	S1	IA-07	decommissioned	monitoring	2600011826	11/14/87	08/01/97	587337.8	728830.6	X
MW-151	S1	IA-09	decommissioned	monitoring	E201303809	04/01/13	03/27/15	587291.0	729438.0	X
MW-152	S1	IA-09	decommissioned	monitoring	E201303811	04/01/13	05/23/14	587356.9	729403.2	X
MW-152B	S2	IA-09	decommissioned	monitoring	E201405304	04/25/14	03/27/15	587345.1	729401.6	X
MW-153	S1	IA-09	decommissioned	monitoring	E201303819	04/02/13	03/26/15	587462.4	729335.4	X
MW-154	S1	IA-09	decommissioned	monitoring	E201303820	04/03/13	03/26/15	587428.0	729277.8	X
MW-154A	S1	IA-09	decommissioned	monitoring	E201316881	11/15/13	03/26/15	587425.0	729274.3	X
MW-154B	S2	IA-09	decommissioned	monitoring	E201405307	05/09/14	03/26/15	587425.1	729291.2	X
MW-155	S1	IA-06	decommissioned	monitoring	E201304354	04/09/13	03/19/15	587036.0	729152.2	X
MW-156	S1	IA-06	decommissioned	monitoring	E201304355	04/09/13	03/19/15	587027.0	729122.5	X
MW-157	S1	IA-06	decommissioned	monitoring	E201304356	04/04/13	10/10/16	586738.5	729229.5	X
MW-167A	S1	IA-09	decommissioned	monitoring	E201304398	04/04/13	03/26/15	587380.2	729272.5	X
MW-167B	S2	IA-09	decommissioned	monitoring	E201304401	04/10/13	03/26/15	587384.5	729270.2	X
MW-168A	S1	IA-09	decommissioned	monitoring	E201304407	04/04/13	03/26/15	587322.1	729309.0	X
MW-168B	S2	IA-09	decommissioned	monitoring	E201304408	04/12/13	03/26/15	587326.4	729306.5	X
MW-169A	S1	IA-09	decommissioned	monitoring	E201304410	04/04/13	03/26/15	587262.9	729345.9	X
MW-169B	S2	IA-09	decommissioned	monitoring	E201304412	04/12/13	03/27/15	587267.0	729343.6	X
MW-170	S1	IA-09	decommissioned	monitoring	E201303829	04/02/13	05/23/14	587410.6	729374.6	X
MW-170A	S1	IA-09	decommissioned	monitoring	E201308753	07/12/13	03/26/15	587402.8	729358.9	X

Appendix A
Well Abandonment Log
Hoffmann-La Roche Inc. - Nutley, NJ

Well Designation	Hydro-geologic Zone	Investigation Area (IA)	Well Status	Well Type	Permit Number	Date Installed	Date Decommissioned	East (X) (NJSP, NAD83)	North (Y) (NJSP, NAD83)	NJDEP Decommissioning Form Included in this Report
MW-170B	S2	IA-09	decommissioned	monitoring	E201308754	07/11/13	03/26/15	587412.4	729358.8	X
MW-176	S2	IA-04	decommissioned	monitoring	E201303567	05/04/13	05/04/13	N/A	N/A	X
MW-177	S1	IA-04	decommissioned	monitoring	E201303566	05/10/13	09/20/16	587132.4	729896.2	X
MW-18	S1	IA-11	decommissioned	monitoring	2600014980	12/08/88	08/07/17	587252.2	728417.9	
MW-183	S1	IA-04	decommissioned	monitoring	E201303573	04/01/13	07/17/15	587434.8	729896.6	X
MW-185	S1	IA-04	decommissioned	monitoring	E201303575	04/10/13	07/31/15	587318.5	729972.0	X
MW-186A	S1	IA-02	decommissioned	monitoring	E201304324	04/11/13	10/17/14	587075.7	729358.4	X
MW-186AR	S1	IA-02	decommissioned	monitoring	E201501064	03/17/15	11/20/15	587081.3	729358.8	X
MW-19	S1	IA-07	decommissioned	monitoring	2600014981	12/06/88	06/16/09	587886.5	728762.4	
MW-195A	S1	IA-07	decommissioned	monitoring	E201218666	12/14/12	01/02/14	587440.1	728717.7	X
MW-198	S1	IA-07	decommissioned	monitoring	E201218830	12/19/12	09/20/16	587749.6	728522.5	X
MW-1A	S1	IA-01	decommissioned	monitoring	2600024654	11/01/91	04/03/15	586881.6	730105.0	X
MW-20	S1	IA-04	decommissioned	monitoring	2600019596	03/20/90	07/31/15	587314.5	729933.8	X
MW-204B	S2	IA-07	decommissioned	monitoring	E201309685	07/24/13	08/08/17	587536.4	728567.0	
MW-213A	S1	Offsite	decommissioned	monitoring	E201311461	09/03/13	09/29/16	585871.9	728875.0	X
MW-217	S1	IA-04	decommissioned	monitoring	E201308752	07/02/13	03/26/15	587428.9	729402.4	X
MW-217B	S2	IA-09	decommissioned	monitoring	E201405303	05/05/14	03/26/15	587434.2	729390.3	X
MW-22	S2	IA-06	decommissioned	monitoring	2600036930	05/24/94	03/18/96	586819.0	728789.0	X
MW-228A	S1	IA-03	decommissioned	monitoring	E201312279	09/18/13	03/23/15	587964.1	729228.9	X
MW-23	S1	IA-12	decommissioned	monitoring	2600036931	05/20/94	12/08/14	587895.7	729748.6	X
MW-234B	S2	IA-12	decommissioned	monitoring	E201306924	07/26/13	12/08/14	587922.7	729806.9	X
MW-242	S1	IA-11	decommissioned	monitoring	E201315995	11/06/13	08/08/17	587089.7	728363.3	
MW-245	S1	IA-10	decommissioned	monitoring	E201315966	11/07/13	04/09/15	586353.7	729652.4	X
MW-25	S1	IA-11	decommissioned	monitoring	2600036933	05/27/94	08/08/17	587135.2	728402.4	
MW-254A	S1	IA-01	decommissioned	monitoring	E201314612	10/21/13	04/03/15	586927.3	730127.2	X
MW-255A	S1	IA-01	decommissioned	monitoring	E201314613	10/21/13	04/03/15	586923.3	729951.9	X
MW-256A	S1	IA-01	decommissioned	monitoring	E201314614	10/22/13	09/20/16	587027.6	729903.1	X
MW-25C	S3	IA-11	decommissioned	monitoring	E201307248	06/04/13	08/08/17	587134.8	728393.9	
MW-26	S2	IA-11	decommissioned	monitoring	2600036934	05/25/94	03/18/96	587125.2	728384.7	X
MW-262A	S1	IA-09	decommissioned	monitoring	E201316882	11/15/13	03/26/15	587417.8	729372.6	X
MW-278A	S1	IA-15	decommissioned	monitoring	E201404150	04/15/14	04/06/15	587608.4	727108.3	X
MW-282A	S1	IA-10	decommissioned	monitoring	E201401091	01/27/14	04/09/15	586230.4	729927.2	X
MW-288A	S1	IA-07	decommissioned	monitoring	E201403943	04/15/14	08/07/17	587459.1	728610.0	
MW-289A	S1	IA-07	decommissioned	monitoring	E201403937	04/16/14	08/07/17	587343.2	728549.5	
MW-29	S1	IA-10	decommissioned	monitoring	2600053982	05/04/99	04/09/15	586437.9	730566.1	X
MW-293A	S1	IA-07	decommissioned	monitoring	E201403934	04/21/14	08/09/17	587609.2	728999.5	
MW-299B	S2	IA-09	decommissioned	monitoring	E201405305	04/28/14	03/26/15	587379.0	729380.2	X
MW-30	S1	IA-10	decommissioned	monitoring	2600053315	05/05/99	10/13/16	586547.5	729787.2	X
MW-300B	S2	IA-09	decommissioned	monitoring	E201405306	04/30/14	03/26/15	587465.2	729342.3	X
MW-321A	S1	IA-06	decommissioned	monitoring	E201405565	05/27/14	01/09/15	586879.1	729070.0	X
MW-327B	S2	IA-11	decommissioned	monitoring	E201409081	07/17/14	08/08/17	587273.1	728157.3	
MW-332B	S2	IA-11	decommissioned	monitoring	E201501507	03/09/15	08/08/17	587219.1	728132.0	
MW-335A	S1	IA-15	decommissioned	monitoring	E201411514	09/05/14	04/06/15	587505.2	727458.4	X
MW-344C	S3	IA-11	decommissioned	monitoring	E201407650	06/21/14	08/09/17	587227.3	728150.3	
MW-35	S1	IA-03	decommissioned	monitoring	2600053353	04/30/99	08/17/17	588200.1	728946.2	
MW-352A	S1	IA-15	decommissioned	monitoring	E201411515	09/05/14	04/06/15	587477.9	727374.9	X
MW-357-SBR	S1	IA-01	decommissioned	monitoring	E201416449	01/06/15	09/20/16	587131.4	729941.5	X
MW-36	S1	IA-07	decommissioned	monitoring	2600053359	05/03/99	08/16/17	588216.2	728776.3	
MW-369A	S1	IA-01	decommissioned	monitoring	E201413445	11/04/14	09/20/16	587109.8	730002.7	X
MW-369-SBR	S1	IA-01	decommissioned	monitoring	E201416450	12/23/14	09/20/16	587115.4	730013.4	X
MW-378B	S2	IA-07	decommissioned	monitoring	E201500788	12/02/14	08/16/17	588232.9	728746.6	
MW-385A	S1	IA-01	decommissioned	monitoring	E201414483	11/04/14	07/17/15	586926.3	730094.8	X
MW-386A	S1	IA-01	decommissioned	monitoring	E201414484	11/03/14	03/17/17	586890.1	730068.0	X
MW-39	S1	IA-03	decommissioned	monitoring	2600053362	05/13/99	04/01/01	587950.4	728930.0	X
MW-39-2	S1	IA-04	decommissioned	monitoring	2600032777	03/26/93	11/09/10	587478.5	729721.4	X
MW-399A	S1	IA-07	decommissioned	monitoring	E201416612	02/11/15	08/07/17	587381.7	728482.3	
MW-399S	S1	IA-07	decommissioned	monitoring	E201416631	01/19/15	08/07/17	587377.5	728478.5	
MW-4	S1	IA-01	decommissioned	monitoring	2600011830	11/03/88	12/05/95	586682.0	729890.0	X
MW-40	S2	IA-03	decommissioned	monitoring	2600053363	04/16/99	04/09/01	587944.4	728919.2	X
MW-400A	S1	IA-07	decommissioned	monitoring	E201416613	01/28/15	08/07/17	587395.1	728475.2	

**Appendix A
Well Abandonment Log
Hoffmann-La Roche Inc. - Nutley, NJ**

Well Designation	Hydro-geologic Zone	Investigation Area (IA)	Well Status	Well Type	Permit Number	Date Installed	Date Decommissioned	East (X) (NJSP, NAD83)	North (Y) (NJSP, NAD83)	NJDEP Decommissioning Form Included in this Report
MW-401A	S1	IA-07	decommissioned	monitoring	E201416614	02/04/15	08/07/17	587398.4	728486.7	
MW-401S	S1	IA-07	decommissioned	monitoring	E201416632	01/21/15	08/07/17	587392.6	728481.9	
MW-402A	S1	IA-07	decommissioned	monitoring	E201416615	01/28/15	08/07/17	587366.2	728465.2	
MW-402S	S1	IA-07	decommissioned	monitoring	E201416633	12/30/14	08/07/17	587369.2	728461.4	
MW-403A	S1	IA-07	decommissioned	monitoring	E201416616	01/29/15	08/07/17	587360.2	728457.2	
MW-403S	S1	IA-07	decommissioned	monitoring	E201416634	01/21/15	08/07/17	587363.1	728452.8	
MW-405A	S1	IA-07	decommissioned	monitoring	E201416618	01/29/15	08/07/17	587398.0	728517.5	
MW-406A	S1	IA-07	decommissioned	monitoring	E201416619	01/30/15	08/07/17	587414.7	728522.9	
MW-406S	S1	IA-07	decommissioned	monitoring	E201416635	12/30/14	08/07/17	587417.9	728519.2	
MW-407A	S1	IA-07	decommissioned	monitoring	E201416620	01/21/15	08/07/17	587394.5	728530.5	
MW-407S	S1	IA-07	decommissioned	monitoring	E201416636	12/29/14	08/07/17	587391.1	728534.4	
MW-408S	S1	IA-07	decommissioned	monitoring	E201416637	12/29/14	08/07/17	587414.9	728544.9	
MW-409A	S1	IA-07	decommissioned	monitoring	E201416622	01/20/15	08/07/17	587396.2	728559.0	
MW-411A	S1	IA-07	decommissioned	monitoring	E201416624	01/06/15	07/20/15	587424.4	728824.3	X
MW-412A	S1	IA-07	decommissioned	monitoring	E201416628	12/31/14	08/09/17	587667.1	728945.0	
MW-413B	S2	IA-11	decommissioned	monitoring	E201501505	03/10/15	09/14/16	587212.1	728245.7	X
MW-42	S1	IA-07	decommissioned	monitoring	2600053354	04/27/99	08/09/17	587866.9	728836.0	
MW-425B	S2	IA-11	decommissioned	monitoring	E201503179	04/07/15	09/14/16	587222.5	728226.2	X
MW-4A	S1	IA-01	decommissioned	monitoring	2600042998	03/21/96	09/20/16	586682.4	729882.3	X
MW-5G	S1	Offsite	decommissioned	monitoring	E201216679	11/06/12	09/29/16	586837.6	728282.5	X
MW-6	S1	IA-06	decommissioned	monitoring	2600011822	11/13/87	Dec. 1988	586806.0	729051.0	
MW-60	S1	IA-12	decommissioned	monitoring	2600068225	06/25/03	11/24/14	587966.3	729831.1	X
MW-60E	S1	IA-12	decommissioned	monitoring	E201218104	12/07/12	12/08/14	587908.1	729762.0	X
MW-60O	S1	IA-12	decommissioned	monitoring	E201316493	11/18/13	12/08/14	587944.9	729799.0	X
MW-60P	S1	IA-12	decommissioned	monitoring	E201316494	11/18/13	12/08/14	587965.0	729792.0	X
MW-60-Z2	S2	IA-12	decommissioned	monitoring	E201400662	02/18/14	12/01/14	587955.0	729830.3	X
MW-65	S1	IA-11	decommissioned	monitoring	2600074453	05/13/05	08/08/17	587247.6	728130.1	
MW-69	S1	IA-11	decommissioned	monitoring	2600074457	05/18/05	08/08/17	587087.7	728274.7	
MW-7	S1	IA-09	decommissioned	monitoring	2600011823	11/07/87	05/02/95	587001.0	728650.0	X
MW-76	S2	IA-06	decommissioned	monitoring	2600079968	09/27/06	01/09/15	586751.4	728899.3	
MW-77	S3	IA-06	decommissioned	monitoring	2600079974	08/29/06	01/09/15	586747.8	728896.5	X
MW-78	S2	IA-06	decommissioned	monitoring	2600079969	08/15/06	01/09/15	586803.1	728873.8	X
MW-79	S3	IA-06	decommissioned	monitoring	2600079975	08/16/06	01/09/15	586799.2	728869.9	X
MW-8	S1	IA-11	decommissioned	monitoring	2600011824	11/20/87	06/24/92	587623.0	728136.0	X
MW-80	S1	IA-12	decommissioned	monitoring	2600043993	03/21/96	12/08/14	587905.3	729757.7	X
MW-80B	S1	IA-12	decommissioned	monitoring	E201316487	11/19/13	12/04/14	587917.7	729741.9	X
MW-80-Z2	S2	IA-12	decommissioned	monitoring	E201400666	02/18/14	12/02/14	587898.8	729769.2	X
MW-81	S1	IA-03	decommissioned	monitoring	2600043486	03/13/96	03/23/15	587567.9	729257.4	X
MW-82	S2	IA-06	decommissioned	monitoring	2600079970	09/29/06	01/09/15	586845.6	728843.8	X
MW-83	S3	IA-06	decommissioned	monitoring	2600079976	08/25/06	01/09/15	586842.8	728839.9	X
MW-84	S2	IA-06	decommissioned	monitoring	2600079971	10/05/06	01/09/15	586855.1	728815.4	X
MW-85	S3	IA-06	decommissioned	monitoring	2600079977	10/03/06	01/09/15	586853.0	728813.0	X
MW-86	S3	IA-06	decommissioned	monitoring	2600079978	09/28/06	09/20/16	586799.6	728807.4	X
MW-87	S2	IA-06	decommissioned	monitoring	2600081122	10/03/06	01/09/15	586801.0	728844.0	X
MW-88	S3	IA-06	decommissioned	monitoring	2600081123	08/17/06	01/09/15	586800.1	728841.4	X
MW-89	S1	IA-06	decommissioned	monitoring	2600080663	10/06/06	01/09/15	586766.3	728917.0	X
MW-9	S1	IA-07	decommissioned	monitoring	2600011825	11/03/87	12/31/07	587716.7	728592.2	
MW-90	S1	IA-06	decommissioned	monitoring	2600080664	10/09/06	01/09/15	586800.5	728881.3	X
MW-91	S1	IA-06	decommissioned	monitoring	2600080665	10/10/06	01/09/15	586853.1	728860.3	X
MW-92	S1	IA-06	decommissioned	monitoring	2600080662	10/10/06	01/09/15	586856.2	728820.6	X
MW-93	S1	IA-06	decommissioned	monitoring	2600080660	10/10/06	01/09/15	586799.9	728848.8	X
MW-95	S1	IA-06	decommissioned	monitoring	2600081124	01/23/07	01/09/15	586771.4	728930.6	X
MW-97	S1	IA-06	decommissioned	monitoring	2600081120	01/23/07	01/09/15	586849.9	728880.6	X
MW-98	S1	IA-06	decommissioned	monitoring	2600091826	11/27/07	03/19/15	586832.9	729350.5	
OW-1	S1	IA-03	decommissioned	monitoring	2600053639	04/14/99	07/01/99	588057.0	729052.5	X
OW-2	S1	IA-03	decommissioned	monitoring	2600053640	04/22/99	07/01/99	588102.5	728973.8	X
OW-3	S1	IA-03	decommissioned	monitoring	2600053641	04/14/99	07/01/99	588039.3	729022.7	X
OW-4	S1	IA-03	decommissioned	monitoring	2600053642	04/14/99	07/01/99	588046.5	729025.9	X
OW-5	S1	IA-03	decommissioned	monitoring	2600053643	04/14/99	07/01/99	588056.8	729023.7	X
OW-6	S1	IA-03	decommissioned	monitoring	2600053644	04/14/99	07/01/99	588042.3	729005.9	X

**Appendix A
Well Abandonment Log
Hoffmann-La Roche Inc. - Nutley, NJ**

Well Designation	Hydro-geologic Zone	Investigation Area (IA)	Well Status	Well Type	Permit Number	Date Installed	Date Decommissioned	East (X) (NJSP, NAD83)	North (Y) (NJSP, NAD83)	NJDEP Decommissioning Form Included in this Report
OW-7	S1	IA-03	decommissioned	monitoring	2600053645	04/14/99	07/01/99	588040.0	728996.3	X
OW-8	S1	IA-03	decommissioned	monitoring	2600053646	04/14/99	07/01/99	588037.0	728981.6	X
PW-14	N/A	IA-06	decommissioned	Industrial	N/A	N/A	N/A	586643.8	729364.6	
PW-20	N/A	IA-07	decommissioned	Industrial	460000155	1939	10/07/96	587364.4	728837.1	X
PW-27	N/A	IA-01	decommissioned	Industrial	N/A	N/A	N/A	586687.8	729911.2	
PW-32	N/A	IA-01	decommissioned	Industrial	460000156	1943	09/15/93	586767.2	730319.0	X
PW-33	N/A	IA-03	decommissioned	Industrial	460000157	1943	09/09/92	587688.4	729133.6	X
PW-37 ⁽¹⁹⁾	D4	IA-07	converted to well	Industrial	460000158	10/01/43	06/06/08	588316.2	728676.4	
PW-716	D2	Offsite	decommissioned	Industrial	2600003455	12/30/65	06/08/16	587207.9	727500.5	X
PZ-01	S1	IA-04	decommissioned	monitoring	2600036869	05/20/94	03/23/15	587300.5	729941.4	X
RW-51	S3	IA-06	decommissioned	extraction	2600064190	04/17/02	N/A	586752.6	729011.2	X
RW-96	S1	IA-06	decommissioned	extraction	2600081121	01/24/07	01/09/15	586808.1	728905.6	X
SP-1	S1	IA-03	decommissioned	air sparge	2600053647	04/16/99	05/17/99	588050.4	729023.5	X
SVE-4	S1	IA-03	decommissioned	SVE	2600053930	05/14/99	07/01/99	588024.4	728972.1	X
SVE-5	S1	IA-03	decommissioned	SVE	2600053931	05/14/99	07/01/99	588074.3	729054.9	X
SVE-WSG-2	S1	IA-06	decommissioned	SVE	E201317587	11/19/07	06/30/15	586694.0	729275.8	X
SVE-WSG-3	S1	IA-06	decommissioned	SVE	E201317588	11/19/07	06/30/15	586683.1	729258.7	X
SVE-WSG-4	S1	IA-06	decommissioned	SVE	E201317589	11/20/07	06/30/15	586696.2	729251.3	X
SVE-WSG-5	S1	IA-06	decommissioned	SVE	E201317590	11/20/07	06/30/15	586709.0	729243.2	X
SVE-WSG-8	S1	IA-06	decommissioned	SVE	2600086705	03/12/08	07/17/15	586724.8	729232.5	X
SVE-WSG-9	S1	IA-06	decommissioned	SVE	2600086706	03/12/08	06/30/15	586678.1	729286.2	X

Notes:

Shaded well designations indicate recently-abandoned wells (since those described in the January 2017 Site-Wide Groundwater Progress Report).

N/A= not available or not applicable

- ⁽¹⁾ CH-1 converted to DW-44B/44C
- ⁽²⁾ CH-10 converted to DW-21D
- ⁽³⁾ CH-11 converted to DW-8D
- ⁽⁴⁾ CH-12 converted to DW-2D
- ⁽⁵⁾ CH-14 converted to DW-41C
- ⁽⁶⁾ CH-16 converted to DW-50B/50C
- ⁽⁷⁾ CH-17 converted to CH-17 multi-port FLUTE
- ⁽⁸⁾ CH-19 converted to DW-19D
- ⁽⁹⁾ CH-2 converted to DW-15C
- ⁽¹⁰⁾ CH-20 converted to DW-38C
- ⁽¹¹⁾ CH-3 converted to DW-16C
- ⁽¹²⁾ CH-4 converted to DW-14C
- ⁽¹³⁾ CH-5 converted to DW-40C
- ⁽¹⁴⁾ CH-6 converted to DW-20D
- ⁽¹⁵⁾ CH-7 converted to DW-6D
- ⁽¹⁶⁾ CH-8 converted to DW-12C
- ⁽¹⁷⁾ CH-9 converted to DW-13D
- ⁽¹⁸⁾ MW-139 abandoned via overdrill (converted to MW-139A (?))
- ⁽¹⁹⁾ PW-37 installed prior to 1965. Former production well, retrofitted as multiport FLUTE well. Flute installation completed 5/18/06.