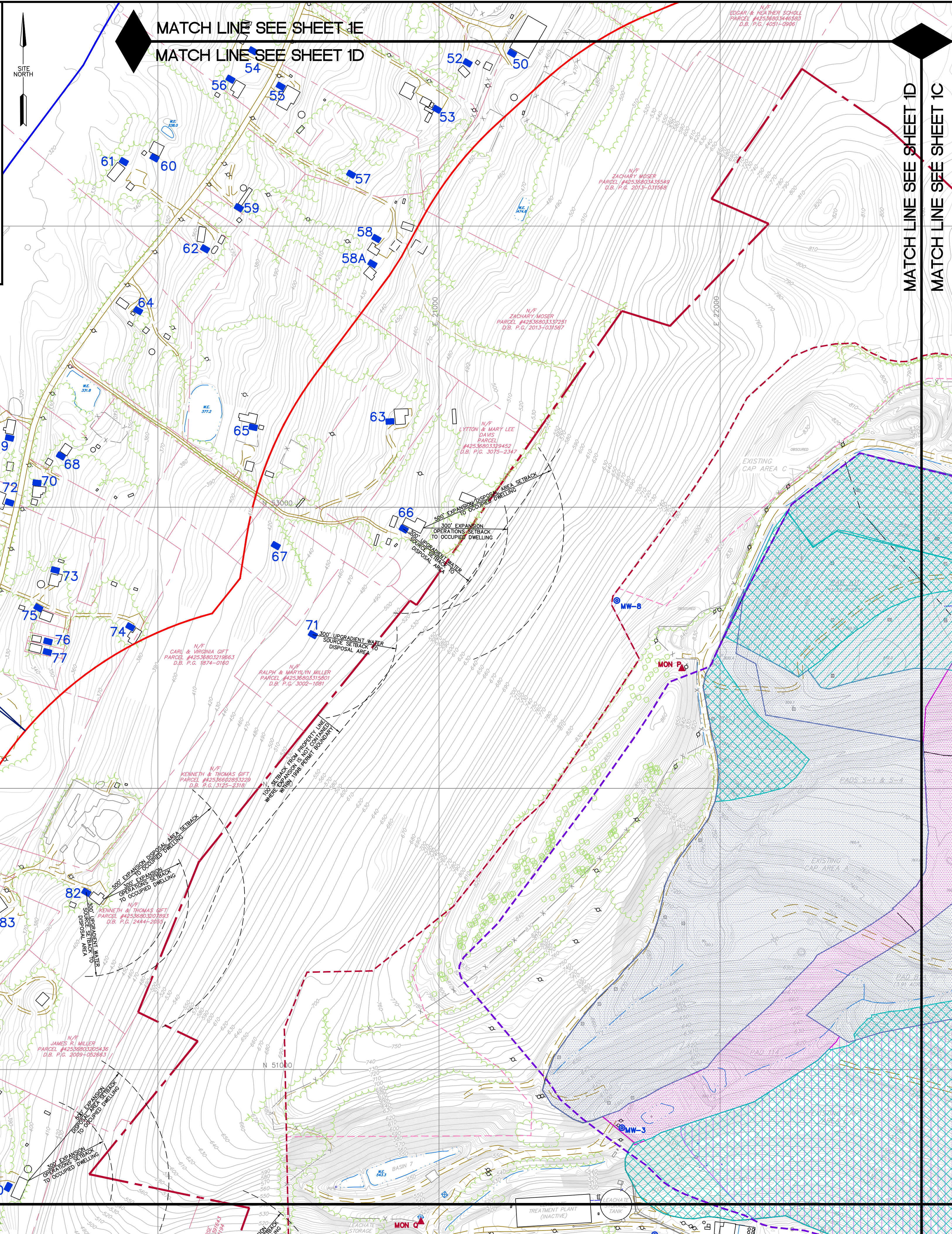
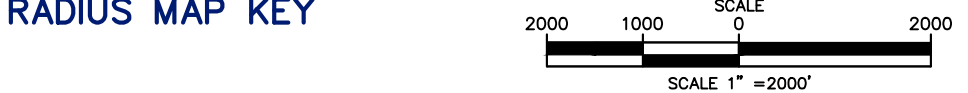
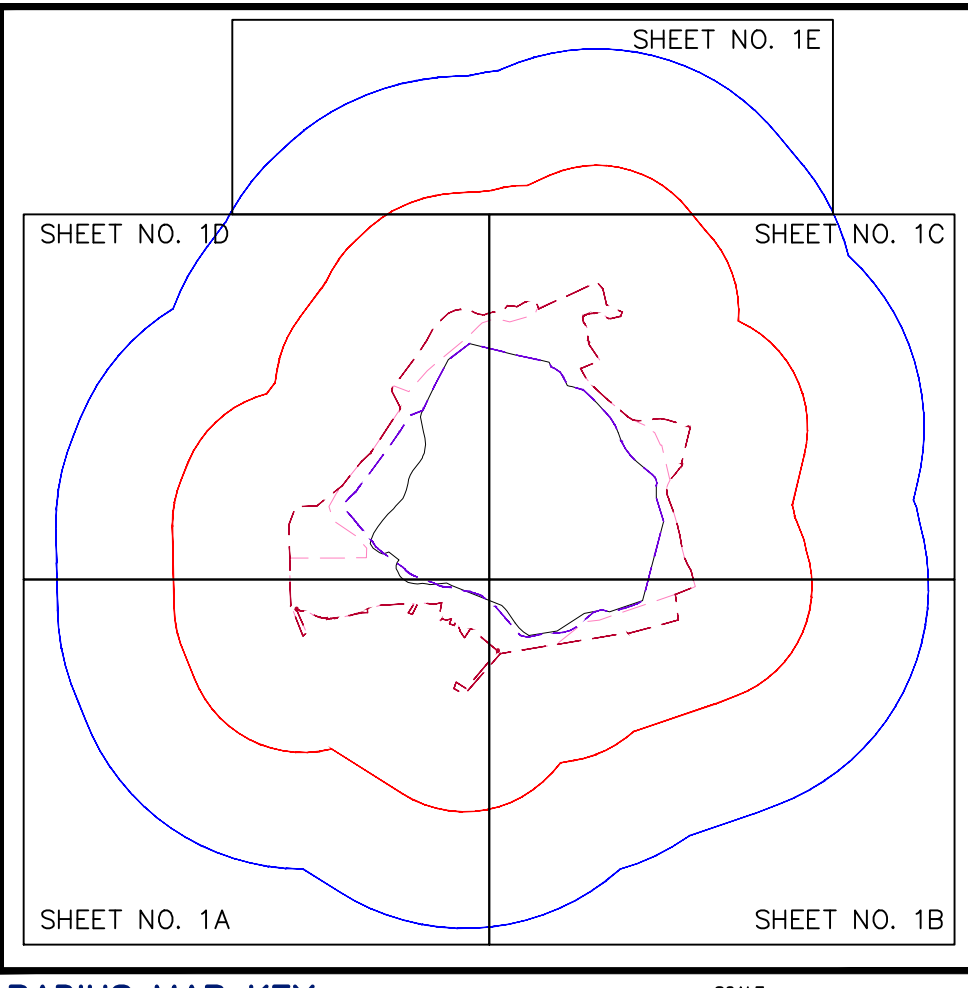


PRIVATE WATER SUPPLIES WITHIN 1/2 MILE OF PROPOSED PERMIT BOUNDARY

Map ID	Deed No.	Owner Name	Address
1	2004 1791	DKW	Shenck Road
2	4997 1328	Moser, Terry L & Marsha	55 Shenck Road
3	2009 060285	Gilbert, James Steven & Ellen, Ruthelle W	13 Chapel Road
4	5192 1626	Goehrs, Ricky & Joelle	215 Longview Road
5	2009 032488	Chish, James W & Lewis, Kimberly A	7 Chapel Road
6	2001 030406	Moser, Terry L & Marsha	19 Chapel Road
7	1786 0905	Hoch, Matthew F & Michele E	28 Chapel Road
8	1786 0905	Hoch, Matthew F & Michele E	28 Chapel Road
9	1786 0905	Hoch, Matthew F & Michele E	28 Chapel Road
10	2014 041092	Hoch, Matthew F & Michele E	28 Chapel Road
11	2010 2024	Fraser, Roberta J	67 Chapel Road
12	2010 2024	Fraser, Roberta J	67 Chapel Road
13	2017 067603	Larson, Randolph LLC	74 Chapel Road
14	1136 0161	Wentzel, Doris V	73 Chapel Road
15	2017 067603	Larson, Randolph LLC	74 Chapel Road
16	2325 2051	Miller, Christopher S & Heidi L	80 Chapel Road
17	1997 2348	Miller, Christopher S & Heidi L	80 Chapel Road
18	1668 0559	Rader, Warren L & Gloria A	90 Chapel Road
19	4947 2346	Vroman, Cary L & Terri L	84 Chapel Road
20	2015 1090	Hoch, Matthew F & Michele E	92 Chapel Road
21	2016 090111	Lab, Joseph A	102 Chapel Road
22	1147 0286	Barthman, Marian G	104 Chapel Road
23	1147 0286	Barthman, Marian G	104 Chapel Road
24	1941 0994	Lab, Joseph A	102 Chapel Road
25	2016 090111	Lab, Joseph A	102 Chapel Road
26	3188 0677	Davidson, John F & Barbara J	1850 West Philadelphia Avenue
27	4564 1786	Samsel, Dawn M & Shirley L	1 Cedar Lane
28	1786 0865	Hass, Randy D & Sandra L	12 Cedar Lane
29	1786 0865	Hass, Randy D & Sandra L	12 Cedar Lane
30	2015 002370	AJA Associates LLC	8 Cedar Lane
31	2014 023389	Lambertson, M Franklin	18 Cedar Lane
32	2013 042803	Knight, Virginia H	6 Cedar Lane
33	1599 0430	Moyer, Donald A & Shirley M	16 Cedar Lane
34	3429 1281	Bope, Rebecca	2 Cedar Lane
35	1518 0324	Dolterer, William W & Mary Ellen	1887 West Philadelphia Avenue
36	3376 0518	Hess, Helen R	14 Cedar Lane
37	4606 0410	Uppogrove, Brenda	1903 West Philadelphia Avenue
38	1492 1926	Chick, Peter C & Elizabeth Ann	226 Toll House Road
39	2462 1190	Chick, Peter C & Elizabeth Ann	228 Toll House Road
40	2462 1190	Chick, Peter C & Elizabeth Ann	228 Toll House Road
41	3881 0652	Lack, Jeffrey A & Carl J	208 Toll House Road
42	1551 0398	Whitman, James C & Martina Y	240 Manantany Road
43	1980 0222	Moser, Zachary	240 Manantany Road
44	4051 0906	Scholl, Edgar W & Heather D	245 Manantany Road
45	2017 060285	Yankin, David J & Helen, Larissa M	246 Manantany Road
46	2538 2376	Bumgarner, Joseph A & Senae M	254 Manantany Road
47	1766 0581	Becker, Bedrice	260 Manantany Road
48	3945 1825	Rosen, Steven M & Riffy A	263 Manantany Road
49	2013 015688	Moser, Zachary	267 Manantany Road
50	1786 1668	Eshbach, Michael S & Cheryl E	269 Manantany Road
51	1772 0726	Rhodes, Floyd M (D) & Debella S	269 Manantany Road
52	1452 0157	Brumbach, Eleanor M & Curtis, Eleanor	300 Manantany Road
53	2119 1427	Dudler, William T Jr (Cynthia M)	291 Manantany Road
54	1452 0157	Brumbach, Eleanor M & Curtis, Eleanor	300 Manantany Road
55	2012 051160	Farringer, Franklin II	293 Manantany Road
56	2013 015627	Moser, Zachary	293 Manantany Road
57	2013 015627	Moser, Zachary	299 Manantany Road
58A	2013 015627	Moser, Zachary	299 Manantany Road
59	2029 1138	Moser, Nancy A	283 Manantany Road
60	2016 003219	Zimmerman, Kenneth R	472 Manantany Road
61	2016 003219	Zimmerman, Kenneth R	472 Manantany Road
62	2016 003219	Zimmerman, Kenneth R	472 Manantany Road
63	1988 0405	Davis, Patrick R & Mary M	499 Manantany Road
64	2013 015613	Carroll, Robert J & Kim A	513 Manantany Road
65	2211 2313	Eustice, Jeffrey C & Kristal S	501 Manantany Road
66	1605 2447	Chen, Yuhua C & Mary Lee	465 Manantany Road
67	1497 0550	Joos, Matthew	465 Manantany Road
68	2015 042085	Boody, Stephen M & Dawn L	513 Manantany Road
69	2013 015627	Walters, Scott D	510 Manantany Road
70	1883 0715	Swinhart, Karen K	519 Manantany Road
71	2002 0883	Miller, Robert J & Marilyn	493 Manantany Road
72	2014 041295	Shifflett, Linda B & Jack L	522 Manantany Road
73	2015 060144	Farmer, Charles J	523 Manantany Road
74	2017 080641	Hartz, Cathryn	533 Manantany Road
75	2016 015551	Coman, Daniel	541 Manantany Road
76	2010 023462	Arnsperg, David E	539 Manantany Road
77	1861 1074	Boze, Francis J (Therese L)	537 Manantany Road
78	1725 1872	Stegemeyer, Jeffrey J	546 Manantany Road
79	1187 0917	Merke, Michael A & Sherri L	551 Manantany Road
80	2010 042999	Stegemeyer, Jeffrey	608 Manantany Road
81	2001 0325	Beeble, Bruce R & Debra M	611 Manantany Road
82	2444 2055	Gil, Kenneth C & Thomas A	613 Manantany Road
83	2066 2447	Gil, Kenneth C & Thomas A	613 Manantany Road
84	2015 040044	Gil, Kenneth C & Thomas A	620 Manantany Road
85	1393 1921	Gil, Kenneth C & Thomas A	623 Manantany Road
86	2015 044962	Wagner Farm Partnership	21 Spangville Road
87	2015 044962	Wagner Farm Partnership	21 Spangville Road
88	1993 1921	Gil, Kenneth C & Thomas A	623 Manantany Road
89	1818 0248	Grosser, George	649 Manantany Road
90	2013 1020	Stover, Brian S & Katrina J	663 Manantany Road
91	1748 1180	Waldner, Larry A & Darlene P	247 Woodhopper Road
92	1929 1328	Townsend, Steven L & Darlene P	242 Woodhopper Road
93	2016 029276	Ambrose, Michael Allen	6 Ambrose Drive
94	2013 044451	Sheehan, Ellen Allen	178 Woodhopper Road
95	5026 2147	Willauer, Clinton D	185 Woodhopper Road
96	2013 044451	Sheehan, Ellen Allen	178 Woodhopper Road
97	5026 2147	Willauer, Clinton D	185 Woodhopper Road
98	4166 1097	Landthony, Ronald R & Mary Ann	6 Furnace Run Road
99	1311 0306	Freedman, Raymond A & Fay L	32 Furnace Run Road
100	1311 0306	Freedman, Raymond A & Fay L	32 Furnace Run Road
101	1311 0306	Freedman, Raymond A & Fay L	32 Furnace Run Road
102	1311 0306	Freedman, Raymond A & Fay L	32 Furnace Run Road
103	2016 012885	Loggia, Nicholas A & Thomas	70 Furnace Run Road
104	2016 012885	Loggia, Nicholas A & Thomas	70 Furnace Run Road
105	1713 0478	Pajdich, Ralph J & Donna E	444 Longview Road
106	1986 0264	Longview, Bob	Longview Road
107	5337 1581	Fryer, Thomas & Amy	473 Longview Road
108	5337 1581	Fryer, Thomas & Amy	473 Longview Road
109	3232 2334	Fryer, Thomas & Amy	474 Longview Road
110	2016 005905	Brinsinger, Kathy L	478 Longview Road
111	2016 005905	Moyr, Eugene C Jr & Jean Marie	486 Longview Road
112	2197 1889	DKSWA	536 Longview Road
113	2001 1402	DKSWA	538 Longview Road
114	3058 0538	Cokray, Mark D & Cathy L	849 Mountain Road
115	3053 1381	Wentzel, Linda S & Shirley A	833 Mountain Road
116	2011 020024	Yurasko, Andrew J & Debra A	833 Mountain Road
117	2014 004492	Oh, David P Jr & Anby N	837 Mountain Road
118	2026 0424	Sandier, Dawn H	870 Mountain Road



- GENERAL BASEMAP NOTES**
- EXISTING TOPOGRAPHY AND FEATURES SHOWN HEREON WERE OBTAINED FROM AERIAL PHOTOGRAPHY PREPARED BY: CDI INFRASTRUCTURE, LLC, DBA L.R. KIMBALL & ASSOC., EBENSBERG, PA, FROM AN AERIAL PHOTOGRAPH DATED 01/14/17.
 - DISPOSAL AREA INFORMATION WAS OBTAINED FROM "SHENKEL ROAD EXPANSION FINAL GRADING PLAN (GAS MANAGEMENT PLAN)" DELAWARE COUNTY SOLID WASTE AUTHORITY, COLEBROOKDALE MUNICIPAL LANDFILL, SHEET LF 11, DWG. 115-LF-11R4_08, FILE NO. 115, DATED APRIL 1996, LAST REVISED APRIL 2008.
 - WHERE PERMIT BOUNDARY IS SHOWN ADJACENT TO PROPERTY BOUNDARY, BOUNDARIES ARE EQUAL. PERMIT BOUNDARY IS SHOWN AS OFFSET TO PROPERTY BOUNDARY FOR CLARITY.
 - 100-YEAR STORM FLOOD DATA, BASED ON INFORMATION DEVELOPED FROM FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD DATA, OBTAINED FROM PASDA (PENNSYLVANIA SPATIAL DATA ACCESS).
 - WETLANDS AND STREAMS / CHANNELS AS INDICATED IN VICINITY OF PERMIT BOUNDARY DELINEATED BY WHM CONSULTING INC. IN MAY 2016. SEE WETLAND DELINEATION REPORT INCLUDED IN FORM D OF EXPANSION APPLICATION FOR MORE SPECIFIC INFORMATION.

- GENERAL BASEMAP LEGEND**
- PROPERTY BOUNDARY
 - ADJOINER PROPERTY LINE
 - EXISTING PERMIT BOUNDARY
 - PROPOSED PERMIT BOUNDARY
 - EXISTING PERMITTED DISPOSAL LIMIT
 - EXISTING PERMITTED PAD DIVISION LINE
 - PROPOSED DISPOSAL LIMIT
 - EXISTING GRADE CONTOURS (C.I.=2'/10')
 - WATER COURSE (IN BASEMAPING)
 - WATER COURSE FLOW DIRECTION
 - 100-YEAR FLOODPLAIN (SEE GENERAL BASEMAP NOTE 4)
 - WETLAND BOUNDARY BY WHM (SEE GENERAL BASEMAP NOTE 5)
 - PERENNIAL STREAM BY WHM (SEE GENERAL BASEMAP NOTE 5)
 - EXISTING SURVEY CONTROL MONUMENT (SEE COORDINATES TABLE, SHEET 1A OF 13)

- EXISTING CONDITIONS NOTES**
- REGULATORY SETBACKS SHOWN ARE TO APPLICABLE EXCLUSIONARY CRITERIA ITEMS ONLY AND ARE SHOWN AT CLOSEST FEATURE IN A NEARBY CLUSTER IN ORDER TO SHOW REQUIRED SEPARATION DISTANCES ARE MET. EXCLUSIONARY CRITERIA NOT SHOWN ARE EITHER NOT PRESENT OR NOT APPLICABLE. SEE FORM D FOR MORE INFORMATION.
 - PUBLIC AND PRIVATE WATER SUPPLY WELL INFORMATION DETERMINED FROM THE PENNSYLVANIA GROUNDWATER INFORMATION SYSTEM (PENNSYLVANIA GEOLOGIC SURVEY, 2006), PADEP BUREAU OF WATER SUPPLY BERKS COUNTY GEOGRAPHIC INFORMATION SYSTEMS AND FIELD RECONNAISSANCE SURVEYS PERFORMED BY BAI IN 2017. THERE ARE NO WATER SOURCES WITHIN 300 FEET DOWNGRADIENT OF THE DISPOSAL AREA. ELEVEN (11) OF THE SUPPLIES IDENTIFIED ARE POTENTIALLY WITHIN 1/2 MILE OF THE DISPOSAL BOUNDARY INCLUDING WELL ID NOS. 66, 71, 96, 97, 111, 112, 113, 115, 116, 117, AND 118. TWO OF THE 11 WELLS (ID NOS. 112 AND 113 ARE OWNED BY DCSWA). NINE (9) OF THE 11 WELLS (ALL EXCEPT WELL ID NOS. 71 AND 97) ARE WITHIN 1/2 MILE OF THE EXISTING DISPOSAL AREA AS WELL.
 - THERE ARE NO PUBLIC WATER SUPPLIES DOWNSTREAM OR DOWNGRADIENT WITHIN 3 MILES OF THE EXISTING OR PROPOSED FACILITY. HENCE A 3 MILE RADIUS MAP IS NOT INCLUDED. THE CLOSEST PUBLIC WATER SUPPLY IS APPROXIMATELY 2.5 MILES FROM THE FACILITY AND IS UPGRADIENT.
 - HATCH AREAS DEPICTING TYPE OF EXISTING LINER SYSTEM (PRE-1988, POST-1988/PRE-2000, AND POST-2000) ARE SHOWN FOR THE TOPMOST LINER SYSTEM IN AREAS WHERE NEWER LINERS OVERLAP PRIOR DISPOSAL CELLS. HATCHES DEPICTED FOR EACH PAD FOLLOW PERMITTED PAD BOUNDARIES (EXCEPT FOR PADS 107 AND 108 AS DESCRIBED IN NOTE 5 BELOW) AND MAY NOT REFLECT ACTUAL EDGE OF LINER LOCATIONS DUE TO LIMITED AS-BUILT SURVEY IN OLDER PADS. LINER SYSTEM DESIGNATIONS AND DESCRIPTIONS TAKEN FROM SHENKEL ROAD EXPANSION PERMIT PADS 107.
 - PADS 107 AND 108 ARE PARTIALLY CONSTRUCTED, HENCE THE SHADED "EXISTING" DISPOSAL AREA LINER SYSTEM SHOWN IN THESE EXISTING CONDITIONS MAPS REFLECTS THE APPROXIMATE LINED AREA OF THOSE CELLS CURRENTLY. SEE SHEET 6A FOR MORE INFORMATION ON PRE-DEVELOPMENT CONDITIONS AND CONSTRUCTION OF THE REMAINDER OF PERMITTED PADS 107 AND 108.

- EXISTING CONDITIONS LEGEND**
- EXISTING DISPOSAL AREA WITH PRE-1988 DOUBLE GEOMEMBRANE LINER SYSTEM
 - EXISTING DISPOSAL AREA WITH POST-1988/PRE-2000 DOUBLE GEOMEMBRANE LINER SYSTEM (NOT COMPOSITE)
 - EXISTING DISPOSAL AREA WITH POST-2000 DOUBLE COMPOSITE LINER SYSTEM
 - EXISTING LLDPE GEOMEMBRANE CAP
 - EXISTING PVC GEOMEMBRANE CAP
 - EXCLUSIONARY CRITERIA REGULATORY SETBACK (SEE EXISTING CONDITIONS NOTE 1)
 - 119 PRIVATE WATER SUPPLY LOCATION AND ID (SEE EXISTING CONDITIONS NOTE 2 AND PRIVATE WATER SUPPLY LIST, THIS SHEET)
 - MON-1 GROUNDWATER MONITORING WELL



N 52000
N 51000

EDWARD J. LAYTON
PROFESSIONAL ENGINEER
NO. 0003988
STATE OF PENNSYLVANIA

KEVIN J. CLARK
REGISTERED PROFESSIONAL ENGINEER
NO. 0003988
STATE OF PENNSYLVANIA

MATCH LINE SEE SHEET 1D
MATCH LINE SEE SHEET 1A

BAI GROUP INC.
Balanced Environmental Solutions

DELAWARE COUNTY SOLID WASTE AUTHORITY
ROLLING HILLS LANDFILL
SOUTHERN AREA LANDFILL EXPANSION

EARL TOWNSHIP BERKS COUNTY PENNSYLVANIA

EXISTING CONDITIONS
1/4 - 1/2 MILE RADIUS MAP (MATCH SHEET 4)

State College Office (814) 238-2060 Delaware Valley Office (610) 495-5585

DATE: 09/25/17
DRAWN BY: KEF
CHECKED: KCC
BAI DRAWING NO: DCSWA-107D008D
SHEET NO. 1D OF 11