Horizontal Separation Distance:

From	To	Range/Max.:	AL (ft)	AR (ft)	CO* (ft)	OH* (ft)	PA (ft)	CA (ft)	TX (ft)	WV (ft)	WY (ft)	NY (ft)
Wellhead	Property Bounday	150-660 (NY)		280	150	150			467			660
	Building/Dwelling	100 (NY) to 625(WY)	200		200	150/100	200			625	350	150/100
	Drilling Unit Bounday	100-660 (NY)		560		150		100			660	660
	Pooled Property- Dwelling	200 (OH)				200						
	Pooled Property- Property Line	150 (OH)				150						
	Road & Railroad	50-200 (CO)			200	50		100				75
	Utility	50-200 (CO)			200	50						
	Water Supply (intake or well)	250 (WV)- 1000 (WV, MD)					200			250 (well), 1000 (supply intake)		2640
	Surface Water Body	50 (OH)- 300 (MI)			300***	50	100			100 (300-trout)		50
	Other oil/gas wells	100- 1320 (WY, NY)				100		150	1200		920, 1320(vertical)	1320
Tank Battery	Property Bounday	350 (CO)			350#	75						
	Building/Dwelling	350 (WY)		200/300	200	150/100					350	
	Drilling Unit Bounday	150 (OH)				150						
	property beyond drilling unit**	75 (OH)				75						
	Pooled Property- Dwelling	150 (OH)				150						
	Pooled Property- Property Line	75 (OH)				75						
	Road & Railroad	50 (OH)				50						
	Utility	50 (OH)				50						
	Water Supply	-										
	Surface Water Body	300 (AL)		300/200		50						
	Other oil/gas wells	75 (CO)			75	50						
tank	tank	3			3	3						
	Road	50 (OH)				50						
	inhabited structure	350 (OH)			200	100					350	
Mechanical Separator	well	50 (OH)				50						
	oil tank	50 (CO)			50	10						
	inhabited structure	350 (WY)				100					350	
vessel that the contents may be heated	oil/production tank	75 (CO)			75	50						
	well	75 (CO)			75	50						
	inhabited structure	350 (WY)			200	100					350	
(if fire heated)	mechanical separator	50			50	50						
pits and pumps (must be fenced)	existing inhabited structure/buildi	500 (WV)			200	150				500	350	
	stream/water body	500 (WV)					100			500		
	wetland	100 (WV)								100		
	public water source	1,000 (WV)								1000		

*=denotes if state has urban(high density) rules and rural (low) density rules

***If distance exemption granted, for more then 6 tanks (700bbl+), adjacent owner/resident must approve location in writing.*

#= 350 or 2 times the diameter of tank

***minimum buffer (Colorado)

15 NCAC 02C 0.107: Horizontal Separation between water supply wells and potential sources of groundwater contamination	
Source Type/Area	**Distance (feet)**
septic/drain field	100
other ground water disposal system	100
Industrial/Municipal residuals dispoal or wastewater irrigation site	100
sewage/liquid water collection/transfer facility constructed to water main standards*	50
other sewage collection/transfer facility	100
cesspools/privies	100
animal feedlots/manure piles	100
fertilizer/pesticide/herbicide/chemical storage areas	100
non-hazardous water storage/treatment/disposal lagoons	100
sanitary landfill/MSW/incinerators/C&D landfill/other disposal sites	500
LCID lanfill	100
animal barns	100
building perimeters, including attached structures	25
surface water bodies that act as sources of groundwater recharge**	50
All other surface water bodies***	25
Chemical/petroluem fuel UST systems regulated under 15A NCAC 02N:	
with secondary containment	50
without secondary containment	100
ASTs, excepth those storing propance, NG, or LPG	50
All other petroleum or chemical storage tank systems	100
Gravesites	50
All other potential sources of groundwater contamination	50
*15 NCAC 02T .0305(g)(2) or 15 NCAC 18A .1950(e)	
**such as ponds, lakes, and resivoirs	
*** such as brooks, creeks, streams, rivers, sounds, bays, and tidal estuaries	

02T- WASTE NOT DISCHARGED TO SURFACE WATERS					
Site Type		Separtation Distance (feet)			
		0506: Wastewater Irrigation Systems		0606: Single Family Res. WW Irrigation	
		Spray	Drip	Spray	Drip
Irrigation sites	any building foundation or basement	15	15	15	15
	any property line	150	50	150	50
	any swimming pool	100	100	100	100
	any well (except for monitoring wells)	100	100	100	100
	groundwater lowering ditches	100	100	100	100
	habitable residence or place of public assmeby- owned by permittee/part of project	200	15	200	15
	habitable residence or place of public assmeby- seapate ownership/not part of project	400	100	400	100
	nitrification field	20	20	20	20
	private/public water supply source	100	100	100	100
	public right of way	50	50	50	50
	subsurface groundwater lowering drainage system	100	100	100	100
	surface water diversions	25	25	25	25
	Surface waters (streams-intermittent and perenial, perenial waterbodies, wetlands)	100	100	100	100
	top of slopes or embankments greter than 2ft in vertical height	15	15	15	15
	water line from disposal system	10	10	10	10
Treatment and storage units	any property line	50*		50	
	any well (except for monitoring wells)	100*		100	
	habitable residence or place of public assmeby- seapate ownership/not part of project	100*		100	
	private/public water supply source	100*		100	
	Surface waters (streams-intermittent and perenial, perenial waterbodies, wetlands)	50*		50	

*: *Indicated distance required for closed loop system (Section 1006) treatment and storage units.*

02T- WASTE NOT DISCHARGED TO SURFACE WATERS

0706: High Infiltration Systems

Infiltration Sites	any building foundation or basement	15
	any property line	200
	any swimming pool	100
	any well (except for monitoring wells)	100
	groundwater lowering ditches[1,2]	200
	habitable residence or place of public assmeby- owned by permittee/part of project	200
	habitable residence or place of public assmeby- seapate ownership/not part of project	400
	Impounded public water supplies	500
	nitrification field	20
	private/public water supply source	100
	public right of way	50
	public shallow groundwater supply (less than 50 ft deep)	500
	subsurface groundwater lowering drainage system[1,2]	200
	surface water diversions	50
	Surface waters (streams-intermittent and perenial, perenial waterbodies, wetlands)[1,2]	200
	top of slopes or embankments greter than 2ft in vertical height	100
	water line from disposal system	10
Treatment and storage units	any property line	50
	any well (except for monitoring wells)	100
	habitable residence or place of public assmeby- seapate ownership/not part of project	100
	private/public water supply source	100
	Surface waters (streams-intermittent and perenial, perenial waterbodies, wetlands)	50

1: can be lowered to 100 ft if certain N and P treatment is used

2: can be lowered to 50 ft if certain N and P treatment is used

02T 0.1100: Residuals Disposal		
Site Type		Separation Distance (in feet, minimum)
Residual treatment storage facility	any property line	50
	any well (except for monitoring wells)	100
	habitable residence or place of public assmeby- seapate ownership/not part of project	100
	private/public water supply source	100
	Surface waters (streams-intermittent and perenial, perenial waterbodies, wetlands)	50

Meet .1105(c), .1106(b) and .1107 Requirements		Liquid	Cake
bulk residuals applied/stockpiled on land	any well (except for monitoring wells)	100	100
	bedrock outcrops	25	0
	groundwater lowering ditches	25	0
	private/public water supply source	100	100
	surface water diversions	25	0
	Surface waters (streams-intermittent and perenial, perenial waterbodies, wetlands)	100	25

DO NOT Meet .1105(c), .1106(b) and .1107 Requirements		Surface- By Vehicle	Surface- By Irrigation	Injection/ Incorporation
bulk residuals applied/stockpiled on land	any property line	50	150	50
	any swimming pool	100	100	100
	any well (except for monitoring wells)	100	100	100
	bedrock outcrops	25	25	25
	building foundations or basements	0	15	0
	groundwater lowering ditches	25	100	25
	habitable residence or place of public assmeby- owned by permittee/part of project	0	200	0
	habitable residence or place of public assmeby- seapate ownership/not part of project	400	400	200
	nitrification field	0	20	0
	private/public water supply source	100	100	100
	public right of way	50	50	50
	subsurface groundwater lowering drainage system	0	100	0
	Surface water diversions	100	100	50
	Surface waters (streams-intermittent and perenial, perenial waterbodies, wetlands)	25	100	25
	top of slopes or embankments greter than 2ft in vertical height	15	15	15
	water lines	0	10	0

construction and operation of surface disposal units	any property line	50
	any swimming pool	100
	any well (except for monitoring wells)	100
	groundwater lowering ditches	100
	habitable residence or place of public assmeby- seapate ownership/not part of project	400
	private/public water supply source	100
	public right of way	50
	subsurface groundwater lowering drainage system	100
	Surface water diversions	25
	Surface waters (streams-intermittent and perenial, perenial waterbodies, wetlands)	100
	water lines	10

02T- WASTE NOT DISCHARGED TO SURFACE WATERS

	1500: Soil Remediation	
Remediation System	any basement	15
	any building foundation, except treatment facility	15
	any property line	50
	any swimming pool	100
	any water line	10
	any well (except for monitoring wells)	100
	groundwater lowering ditches	25
	habitable residence or place of public assmeby- seapate ownership/not part of project	100
	public right of way	50
	rock outcrops	25
	subsurface groundwater lowering drainage system	25
	surface water diversions	25
	Surface waters (streams-intermittent and perenial, perenial waterbodies, wetlands)	100

	1600: Groundwater Remediation Systems	
Infiltration gallery/injection wells	any propertry under separate ownership	50
	any water line	10
	any well (except for monitoring wells)	100
	groundwater lowering ditches	100
	rock outcrops	50
	structures- above ground (buildings, retention walls)	10
	Structures- subsurface (utilities, basements, swimming pools)	15
	subsurface groundwater lowering drainage system	100
	surface water diversions	25
	Surface waters (streams-intermittent and perenial, perenial waterbodies, wetlands)	100
	top of slopes or embankments greter than 2ft in vertical height	15

2U .0701 Setbacks		
Treatment and Storage Facilities	shall adhere to 2T .0500	
Final effluent facilities	any property line	50
	any well (except for monitoring wells	100
	private/public water supply source	100
	surface water (streams and wetlands)	50
unitization area for ground surface discharge	any well (except for monitoring wells	100
	surface waters - non SA	25
	surface waters- SA classification	100