Mechanical Damage Prevention - Existing Technology

		Subsurface Mapping/Locating	Confidence Level	Boring Equipment /HDD Sensing	Confidence Level		Encroachment Monitoring (Ground)	Confidence Level		Encroachment Monitoring (Air)	Confidence Level
Liquid	1	Ground Probing Radar	Μ	1 Magnetometer	М	1	ROW patrol (visual)	Н		Visual/Lidar/GPS ROW (helicopter/fixed wing/UAV) flyover	L
	2	Magnetometer	Μ	2 Differential Impedence Detection	М		Acoustic Monitoring	М	2	Visual/GPS/Satellite ROW Monitoring	М
	3			3 Bit mounted Ground Probing Radar	М		Fiber Optic	Μ	3		
	4			4		4	Impressed Alternating Cycle Current	M	4		
Gas Transmission	1	Ground Probing Radar	Μ	1 Magnetometer	Μ	1	ROW patrol (visual)	Н		Visual/Lidar/GPS ROW (helicopter/fixed wing/UAV) flyover	Н
	2	Magnetometer	Μ	2 Differential Impedence Detection	М	2	Acoustic Monitoring	М	2	Visual/GPS/Satellite ROW Monitoring	Μ
	3			3 Bit mounted Ground Probing Radar	М		Fiber Optic	Μ	3		
	4			4		4	Impressed Alternating Cycle Current	Μ	4		
Gas Distribution (Steel)	1	Ground Probing Radar	М	1 Magnetometer	М	1	ROW patrol (visual)	Н	1	Visual/Lidar/GPS ROW (helicopter/fixed wing/UAV) flyover	Н
	2	Magnetometer	Μ	2 Differential Impedence Detection	М	2	Acoustic Monitoring	М	2	Visual/GPS/Satellite ROW Monitoring	Μ
	3			3 Bit mounted Ground Probing Radar	М		Fiber Optic	М	3		
	4			4		4	Impressed Alternating Cycle Current	М	4		
Gas Distribution (Non-Metallic)	1	Ground Probing Radar	М	1 Differential Impedence Detection	M	1	ROW patrol (visual)	н	1	Visual/Lidar/GPS ROW (helicopter/fixed wing/UAV) flyover	Н
	2			2 Bit mounted Ground Probing Radar	Μ	2	Acoustic Monitoring	М	2	Visual/GPS/Satellite ROW Monitoring	Μ
	3		_ _	3 his Matrix is considered a guide and repre	nonte anle 4		Fiber Optic	М	3		