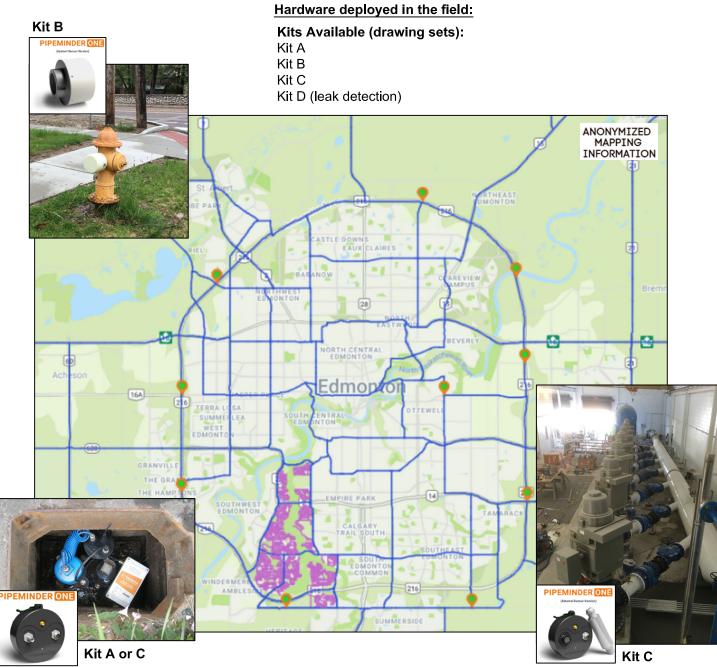
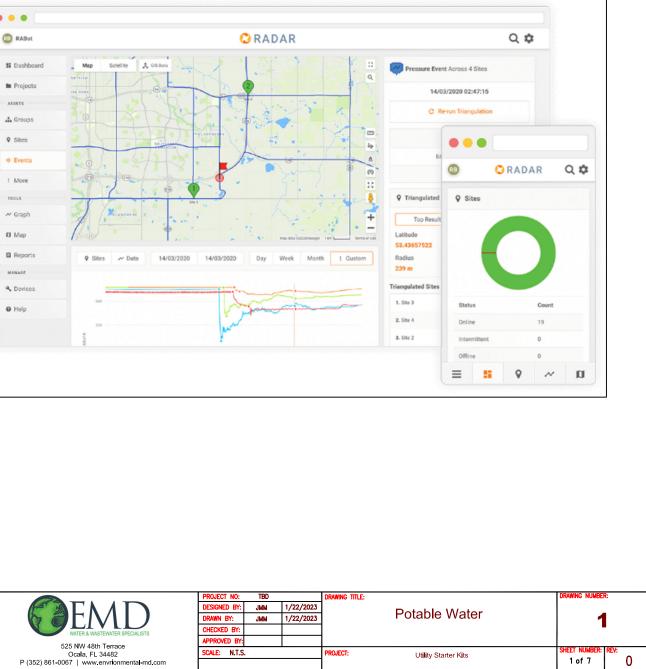
Syrinix Intelligent Pipeline Monitoring

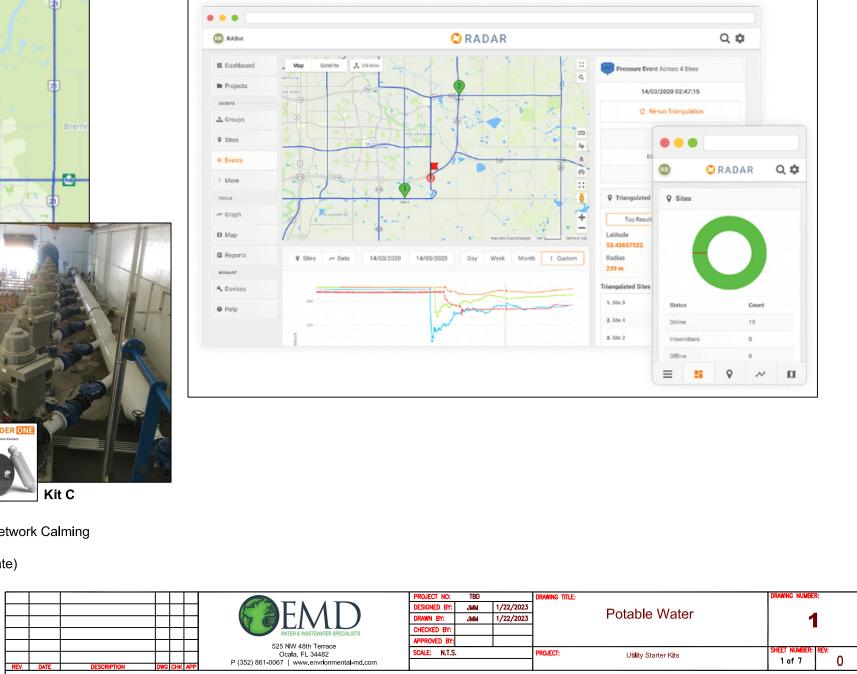




High Resolution + Clock Accuracy + Triangulation (with GIS Shapefiles) + Deployment Planning = Network Calming

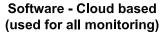
This is possible via high resolution transient monitoring (128 times per second sample rate)

Ability to identify problems & advise actions with high resolution data.

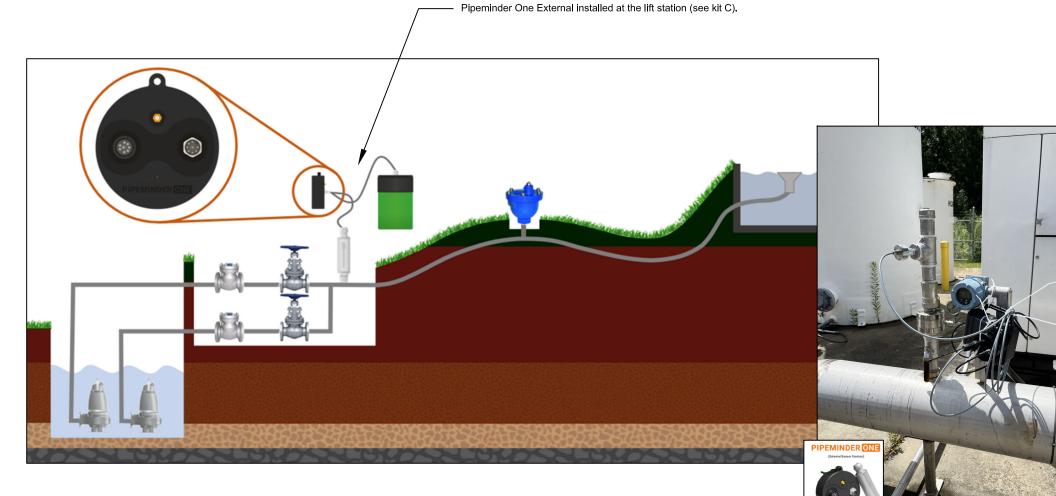




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Syrinix Intelligent Pipeline Monitoring



Kit C

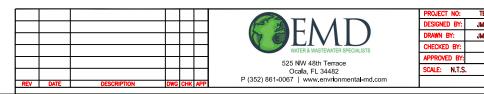
Forcemain Monitoring:

- Baseline current system performance
- Set performance parameters
- Determine operating modes
- Advise on potential for optimization
- Set performance alerts (zone alarms)

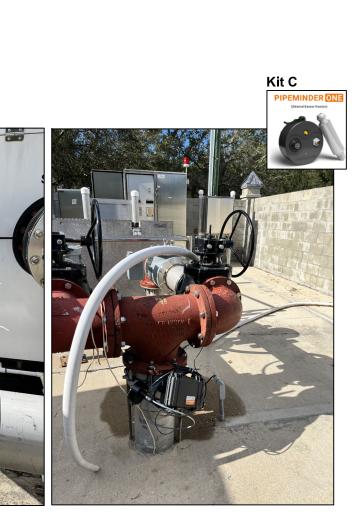
Pump Curve & Profile required to enhance Radars capabilities.
Optional Bonus: Ingest data into Radar from utility (ie. pump run times, flow meter data). See sheet 7.

Failure Modes:

- Burst Main
- Blocked suction / blocked main
- Pump Performance Problems
- Passing / sticking / slamming check valve
- Low delivery pressure
- Drive fault
- Suspected air pockets

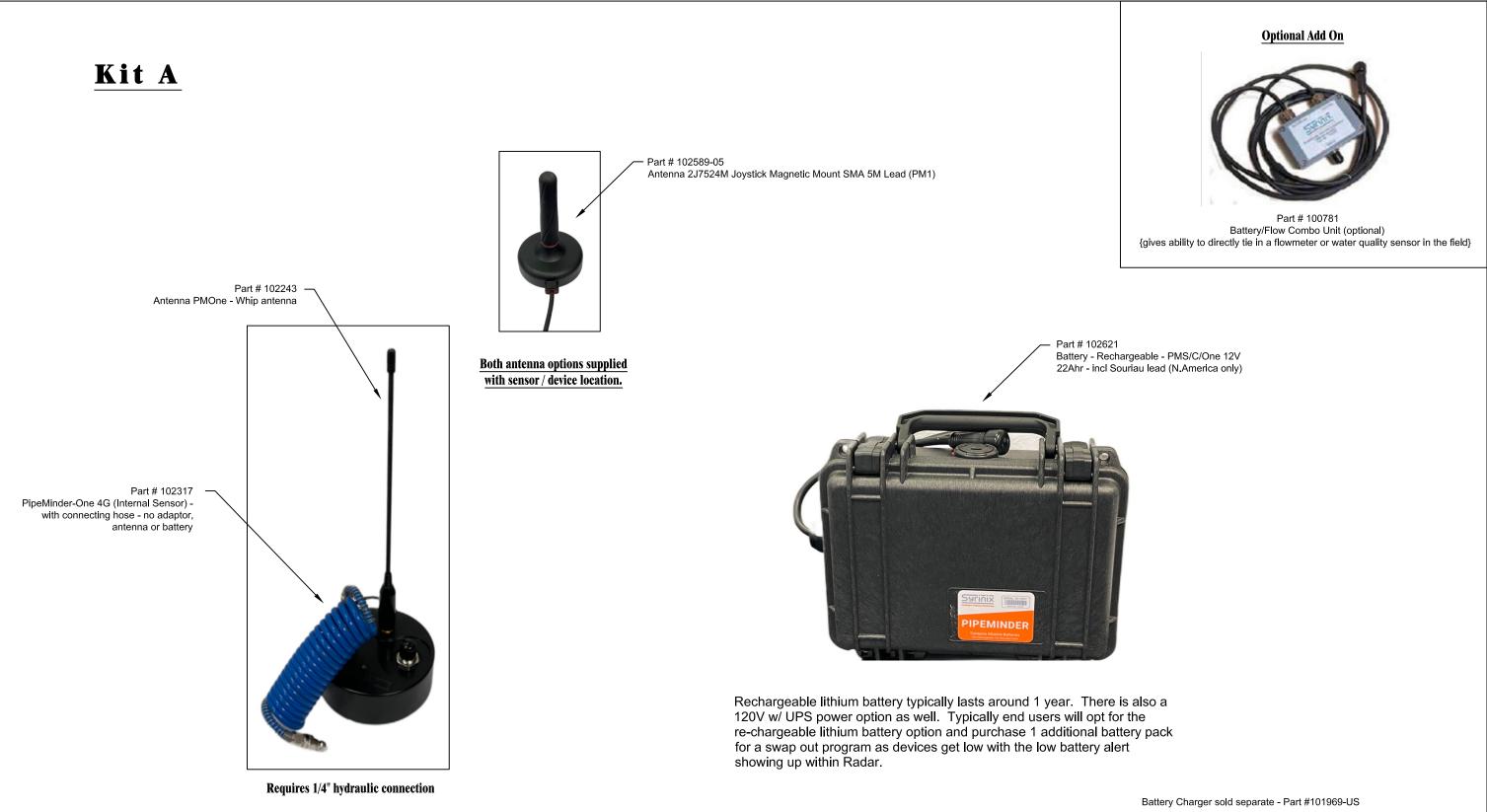




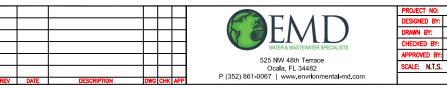


Kits Available (drawing sets): Kit C

TBD		DRAWING TITLE:		DRAWING NUMBER:
MM	1/22/2023		\A/a atau uatau	
MM	1/22/2023		Wastewater	2
				_
		PROJECT:	Utility Starter Kits	SHEET NUMBER: REV:
				2 of 7 0

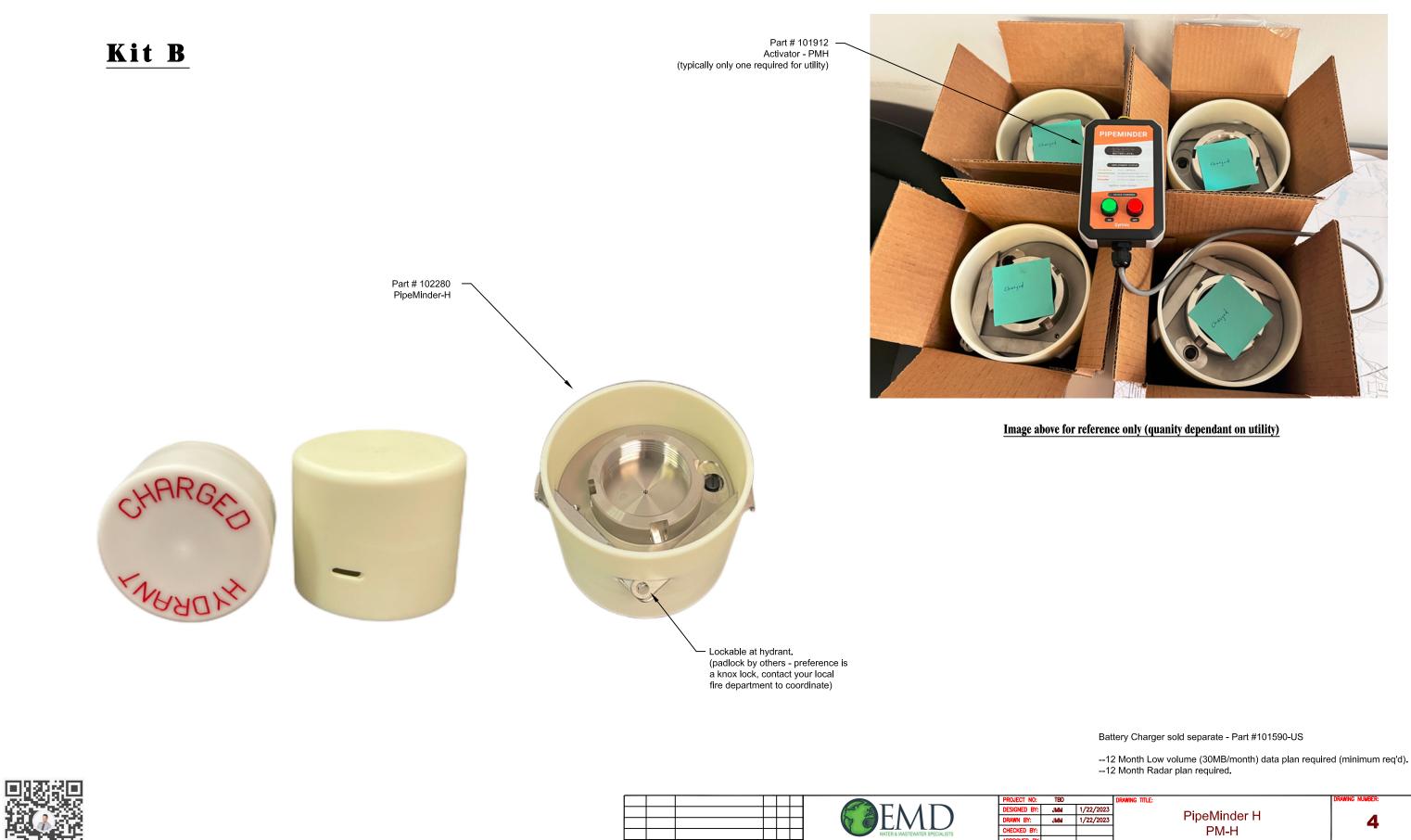






--12 Month Low volume (30MB/month) data plan required (minimum req'd). --12 Month Radar plan required.

TBD		DRAWING TITLE:		DRAWING NUMBER:	1
MM	1/22/2023	1	PipeMinder One	3	
мм	1/22/2023				
			PM1		
		PROJECT:	Utility Starter Kits	SHEET NUMBER: REV:	1
			- 11	3 of 7 🚺	



REV DATE

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SCALE: N.T.S.

TBD		DRAWING TITLE:	RAWING TITLE:	
JMM	1/22/2023		DineMinder	
IMM	1/22/2023		PipeMinder H	<u>Δ</u>
			PM-H	-
		PROJECT:	Utility Starter Kits	SHEET NUMBER: REV:
				4 of 7 0

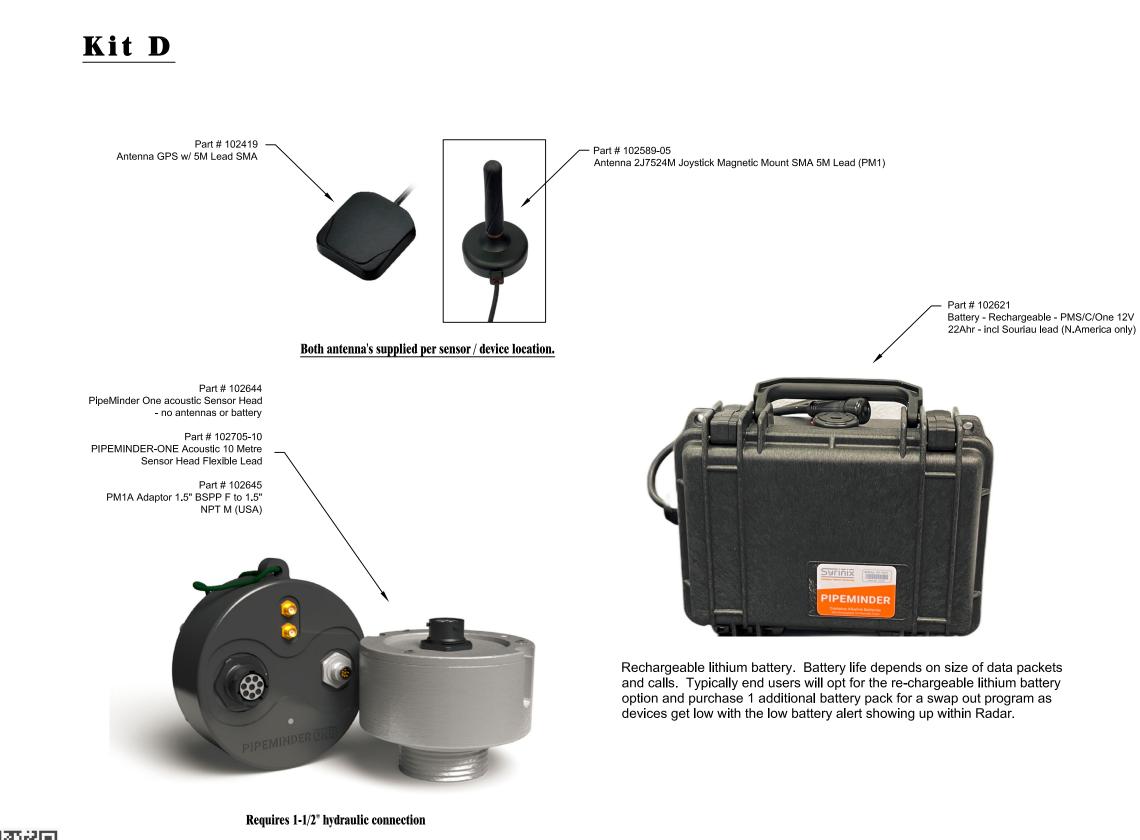


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--12 Month Low volume (30MB/month) data plan required (minimum req'd). --12 Month Radar plan required.

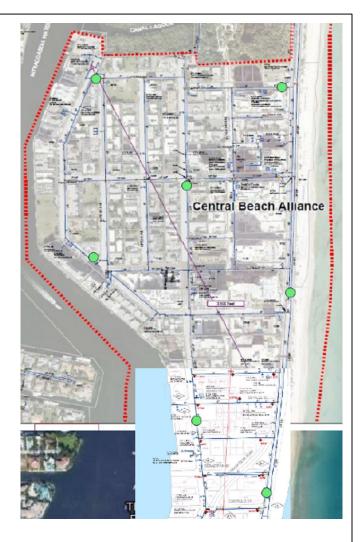
BD		DRAWING TITLE:		DRAWING NUMBER:		
M	1/22/2023		PipeMinder One PM-Ext	5		
M	1/22/2023					
		PROJECT:	Utility Starter Kits	SHEET NUMBER:	REV:	
			•	5 of 7	0	



GIS shape files are required. Pipe materials affects correlation distances.

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- Can be used for lift and shift leak detection efforts.
- Ideal for permanent leak detection studies. • Deployment studies help everyone understand the capabilities. Sensors work together when grouped with other sensors in an area, to minimizing the amount of sensors required.

Battery Charger sold separate - Part #101969-US

--12 Month Low volume (500MB/month) data plan required. --12 Month Radar plan required.



Bonus - Data Source (optional)

Importing of 3rd part timeseries data into Radar from utility.

1) Importing data into Radar via Data Sources.

2) SCADA Assets.



Data sources have 26 pre-defined data types, including but not limited to:

- Pressure •
- Flow
- Water Quality metrics •
- Pump run status •
- Valve travel status .
- Other (a generic timeseries) •

Inputting external data, either through electing to have an SFTP server setup or uploading data manually, allows users the ability to analyze overlaid data in one place. This data can also feed into some analysis in RADAR to allow for better and more insightful analysis to be performed.







--One time SFTP server setup costs. --Annual data reoccurring costs.

BD		DRAWING TITLE:		DRAWING NUMBER:	
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M	1/22/2023		7		
		Data S	Data Sources	-	
		PROJECT:	Utility Starter Kits	SHEET NUMBER:	REV:
				7 of 7	0