



LEAK DETECTION REPORT

285 Boulder Bridge Anytown

2885 Country Dr. #190,
St. Paul, MN, 55117
6514841316
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ABOUT THIS REPORT

Your pool leak detection report includes 4 sections. In the first section you will see Job Information that is pertinent to the problem that was reported to us. We also performed a Leakalyzer test to quickly determine what the actual rate of water loss at the pool was when we arrived. The results are on the second page of this section. In the next section, the results of a comprehensive inspection of your pool are shown in a "Quick- View" table that isolates the problem(s) to specific parts of the pool. The third section reports on a more extensive examination of these areas and any Problems Located. A final Resolution section provides Leakalyzer based proof that the water loss was stopped, and gives recommendations for further actions or repairs to resolve the problems.

JOB INFORMATION

Job Contact	John Johnson	Pool Type	Vinyl Pool
Phone	5555555555	Reported Problem	Moderate Loss 1/2" - 1" / Day
Email	John@johnsemail.com	Problem Notes	Water loss is more than a normal year. Filling pool every day.
Zip	55555		
Referred By	Johnson Pool and Patio		
Hours on Job	2	Weather	Calm, Dry, Partly Sunny.

Main Pool Picture



Equipment Picture





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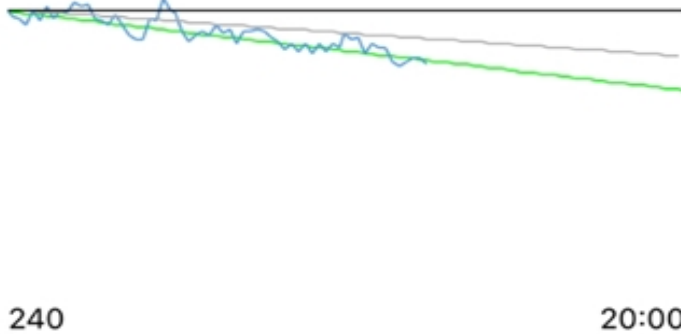
INITIAL LEAKALYZER TEST

Notes:	Total water loss estimate could be low due to water draining back to pool from the equipment after pump was shut off.
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28005 Boulder Bridge Dr

Thu, Sep 09, 2021, 14:32 - Initial

Test Length: 12:36



Pump on:	No
<u>Plugged lines</u>	
Returns:	No
Skimmers:	No
Main Drain:	No
Light Covered:	No
r ² :	0.729013

	Inches/hour	Inches/day	Gallons/day
Total Loss	0.01	0.32	156
Est. Evap.	0.01	0.19	93
Leak	0.01	0.13	63

ABOUT THE LEAKALYZER

The Leakalyzer measures water level changes to the 10,000th of an inch and quickly produces a graph that allows us to visualize water loss rates in a matter of minutes instead of days. These water level changes are plotted on a graph. Despite water movement that causes variability to the “actual” plot (black line) the Leakalyzer calculates a “best fit” line (green line) that enables us to extrapolate what loss would be expected over a 24 hour period.

In addition to leaks, evaporation - which is dependent on a variety of weather and pool conditions, also contributes to your pool’s water loss. An evaporation estimate based on the actual pool and weather conditions at the time of the test is included in the Leakalyzer report graph (grey line) and shows what normal water loss should be expected. A plotted line that shows a steeper downward slope than the evaporation estimate indicates a leak.





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PROBLEM ISOLATION

Utilizing specialized tests and equipment we are able to efficiently identify problem areas or eliminate parts of the pool as leak free. You will see the results of this inspection in the "Quick View" table below. Isolatable parts of the pool are identified in the first column of the table. If the area was directly inspected the Detail column will indicate the type of inspection done or a reason that it was logically **EXCLUDED**. Areas identified as having a **PROBLEM** will be addressed in the next section of the report. Those identified as **OK** have been confirmed to be leak free.

LEAK INSPECTION QUICK VIEW™

Area	Inspected	Detail	Result
Equipment	Yes	Visually checked	OK
Skimmers	Yes	Dye test	PROBLEM
Returns	Yes	Dye test from deck	OK
Lights	Yes	Dye test during dive	OK
Fiberglass Stairs/Steps	Yes	Dye test during dive LeakTrac	OK
Main Drains	Yes	Hydrophone	OK
Liner	Yes	LeakTrac	PROBLEM
Return Plumbing	Yes	Pressure Tested-see details below	PROBLEM
Suction Plumbing	No	Cone test pass	EXCLUDED
Other Plumbing	No	Cone test pass	EXCLUDED


RETURN PLUMBING PRESSURE TEST DETAILS

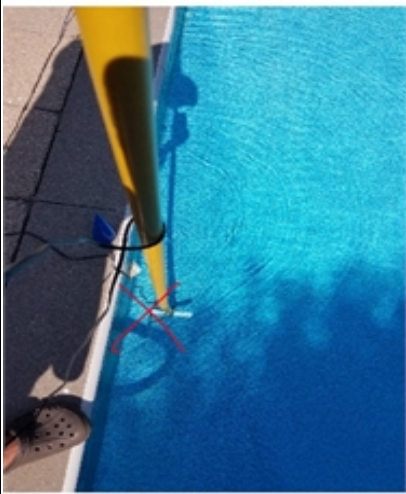
Section	Pressure Test Results	Conclusion
Shallow Return Line	Air pressure test back to valve. Could build pressure up but did not hold pressure.	FAIL



LEAK LOCATION

This section includes more specifics and detail on the problems that were found. If possible a patch has been applied to stop the water loss. Depending the problem this may be a sufficient repair. In other instances more extensive repair may be required/ suggested.

Deep SKIMMER	
	<p>Problem Description: Crack in bowl Three Cracks in bowl</p>
	<p>Patched: Yes</p>
	<p>Notes: Repaired with Leakmaster Pool Repair Putty.</p>

LINER	
	<p>Problem Description: Puncture Deep wall left from deep end puncture in liner. Cut was 1" in length.</p>
	<p>Patched: Yes</p>
	<p>Notes: Leakmaster Flexible Sealer and vinyl patch.</p>

PRESSURE SIDE PLUMBING (RETURNS)



Problem Description:

Leak in shallow return line.

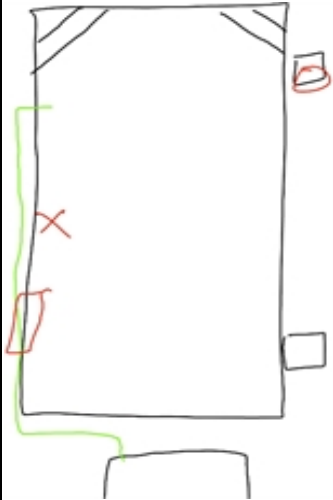
Located: Yes

Method: Listening Device

Notes:

Leak in line below the pavers in box area.

PROBLEM LOCATION DIAGRAM



Three Leaks. Red X is Liner leak. Red circle is skimmer leak. Red rectangle is shallow return line leak underground.



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CONCLUSIONS & RECOMMENDATIONS

Fix or abandoned shallow return line. Monitor water level before winter loss.

Water Loss Stopped: Yes

FINAL LEAKALYZER TEST

Notes: Test was actually before skimmer leak patch. Still inside estimated evaporation, pool is no longer leaking. (With Shallow return line plugged)

28005 Boulder Bridge Dr

Thu, Sep 09, 2021, 15:16 - Final

Test Length: 15:36



Pump on:	No
Plugged lines	
Returns:	No
Skimmers:	No
Main Drain:	No
Light Covered:	No
r ² :	0.424278

	Inches/hour	Inches/day	Gallons/day
Total Loss	0.01	0.15	75
Est. Evap.	0.01	0.19	93
Leak	-0.00	----	----

