

The Ultimate Hand Car Wash Business Plan

Sample for US Launch

Sparkle & Shine Hand Car Wash, LLC (Texas LLC founded March 15, 2024) operates a premium eco-hand wash facility in Austin targeting owners of vehicles >\$35,000. We charge \$25-\$95 per service with 62% gross margin, projecting \$408,000 Year 1 revenue. Founder Jessica Ramirez managed 3 detailing franchises generating \$1.2M annual revenue. April 2024.

1. Executive Summary

Austin hand car wash market loses \$1.8M annually to water waste (City of Austin Water Audit 2023). Sparkle & Shine solves this with closed-loop water reclamation reducing usage 60% below industry average (15 vs 38 gallons per wash). Our \$35 signature wash captures 38% of Austin's 147,000 premium vehicle owners (J.D. Power 2024) at 15% above market average (\$32) due to certified eco-credentials (Green Seal #GS-45). Year 1 revenue: \$408,000 at 62% gross margin. Fixed costs require 1,215 monthly washes to break even; we hit 1,200 washes by Month 12.

We seek \$100,000 SBA 7(a) loan (7.5% interest, 10-year term) to fund 54% of \$185,000 startup costs. \$54,500 covers water reclamation system installation; \$28,000 funds pre-launch customer acquisition. This enables 14-month path to profitability with \$18,400 Year 1 net profit. Projected 18.2% net margin by Year 3 (\$134,500 profit on \$739,200 revenue) delivers 22% IRR to investors.

2. Company Overview

Formed as Texas LLC for liability protection and pass-through taxation. Located at 4500 S. Lamar Blvd (Austin C-2 zone) due to 42,000 VPD traffic count (TxDOT 2023) and proximity to 18,500 households earning >\$100k (Census 2022). Ownership: Ramirez 70% (funded \$59,500), Tran 20% (\$17,000), Angel 10% (\$8,500).

Jessica Ramirez: Managed Austin Detail Pros franchises (2018-2023), grew revenue from \$420k to \$1.2M in 3 years. Michael Tran: Designed water reclamation for 2 Austin car washes reducing usage 55-63% (2021-2023).

Date	Milestone	Status	Next Steps
Mar 15, 2024	LLC Formation	Complete	Secure SBA loan commitment
Apr 30, 2024	Lease Execution	Complete	Begin build-out
Jun 15, 2024	Water System Installation	Pending	Complete city inspections
Aug 1, 2024	Staff Hiring	Planned	Train on eco-protocols
Oct 15, 2024	Pre-Sell 200 Memberships	Planned	Activate referral program
Feb 1, 2025	Soft Launch	Planned	Target 50 washes/day
May 1, 2025	1,200 Monthly Washes	Planned	Initiate San Antonio site search

3. Market Analysis

TAM: \$4.2B US hand wash industry (IBISWorld 2024). SAM: \$420M Texas market (10% of TAM). SOM: \$28M Austin metro (6.7% of SAM based on vehicle count). Calculated as: 452,000 Austin households x 94% vehicle ownership x 3.2 washes/year x \$18.30 avg price (Texas Auto Wash Assn) = \$28.1M.

Primary customers: 55,000 Austin households earning \$92k+ (Census 2022) owning vehicles >\$35k. 38% drive premium/EVs (Tesla Austin sales: 4,200 units in 2023). Budget: \$30-\$100/wash; 68% prioritize eco-credentials (City of Austin Survey).

Segment	Size (\$)	Growth Rate	Our Share Target	Rationale
Urban Professionals	\$14.6M	5.1%	8.2%	38% EV ownership; 12% wash frequency premium
Eco-Families	\$7.8M	4.7%	6.5%	42% identify as eco-conscious; 2.8 washes/year
Car Enthusiasts	\$3.2M	3.9%	12.1%	High LTV (\$420/year); low price sensitivity
Fleet Vehicles	\$2.5M	8.3%	15.0%	DoorDash/Uber operate 9,200 vehicles in Austin

Category	Total Addressable	Serviceable Available	Serviceable Obtainable	Methodology
US Market	\$4.2B	\$420M	\$28M	TAM: IBISWorld; SAM: 10% of TAM (TX pop share); SOM: 6.7% of SAM (Austin vehicle count)

4. Competitive Analysis

Direct competitors: Austin Hand Wash & Detail (\$1.1M revenue, 3 locations, \$32 avg price), EcoWash Austin (\$480k revenue, mobile-only, \$38 avg price). Automated washes (Zips, WashMo) capture 65% of Austin market volume but have 28% lower customer satisfaction (2023 J.D. Power).

Competitive advantages: 1) Water reclamation cuts usage to 15 gal/wash vs 38 gal industry average (60% reduction), saving \$0.85/wash (Austin water rate: \$8.20/1,000 gal). 2) Green Seal certification commands 15% price premium. 3) Lounge with refreshments increases dwell time 22 minutes (vs 8 at competitors), driving 34% add-on sales rate.

Competitor	Revenue Est.	Pricing	Key Strength	Key Weakness	Our Differentiation
Austin Hand Wash	\$1.1M	\$32	3 locations	No water recycling	60% less water use
EcoWash Austin	\$480k	\$38	Eco-branding	Mobile-only (no lounge)	Dedicated facility + lounge
ShinePro Detailing	\$720k	\$45	Online reviews	No water conservation	Certified closed-loop system
Zips Car Wash	\$2.4M	\$22	Speed (5-min)	Automated (scratches)	Hand-wash quality guarantee

Strengths	Weaknesses	Opportunities	Threats
Closed-loop water system (60% less usage)	Limited bays (2 wash + 1 detail)	Austin EV growth (24% CAGR)	New automated wash (WashMo opening Q3 2025)
Green Seal certification	Higher price point (+15%)	City water conservation grants	Stricter water regulations
Lounge increases add-on sales 34%	No mobile service	Fleet contracts (Uber/DoorDash)	Recession cuts discretionary spend
Founder's 12-yr industry experience	Unproven brand	Tesla Austin partnership	Staff turnover (40% industry avg)

5. Products & Services

Signature Hand Wash (\$35): 45-minute process using 15 gal water (vs 38 gal industry), microfiber towels, non-toxic soap. Includes exterior wash, tire shine, interior vacuum, window cleaning. Premium Detail (\$95): Adds leather conditioning, odor elimination, wax sealant. EcoWash Express (\$25): 30-minute exterior wash using 10 gal water. Monthly Membership (\$79): Weekly Signature wash + 10% add-on discount.

Pricing set at 15% premium to Austin average (\$32) based on Green Seal certification value (Nielsen 2023: 22% pay premium for eco-certified services). Membership pricing captures 3.2x annual value (\$948) vs single washes (\$420) while reducing churn to 4.1% monthly (vs 7.3% industry).

Tier	Price	Features	Target Customer	Rev % Y1	Gross Margin
Signature Wash	\$35	Exterior wash, vacuum, windows	Urban professionals	52%	65%
Premium Detail	\$95	All Signature + leather, wax, odor	Car enthusiasts	28%	68%
EcoWash Express	\$25	Exterior only, 30-min	Fleet/commercial	12%	58%
Membership	\$79/mo	Weekly wash + discounts	Loyal customers	8%	72%

Metric	Value	Calculation/Notes
Price per unit	\$42.50	Weighted avg: $(52\% \times \$35) + (28\% \times \$95) + (12\% \times \$25) + (8\% \times \$94.80)$
COGS per unit	\$16.15	Water (\$0.12) + Supplies (\$3.80) + Direct labor (\$12.23)
Gross Profit/unit	\$26.35	$\$42.50 - \16.15
Gross Margin %	62%	$\$26.35 / \42.50
CAC	\$58.60	\$28k marketing / 478 new customers (Year 1)

LTV	\$382	$(\$42.50 \times 12 \text{ months} \times 72\% \text{ retention}) / 13.2\% \text{ churn}$
LTV:CAC	6.5:1	$\$382 / \58.60
Payback Period	2.2 months	$\text{CAC} / (\text{Gross Profit} \times \text{Monthly Retention}) = \$58.60 / (\$26.35 \times 0.868)$

6. Marketing & Sales

Primary channel: Google Ads targeting "hand car wash Austin" (\$2.80 CPC, 3.5% conversion). Secondary: Tesla Austin partnerships (200 referrals/month at \$0 CAC). Tertiary: Fleet contracts (DoorDash: 150 vehicles at \$20/wash). Digital ads generate 72% of new customers at \$58.60 CAC.

Sales cycle: 3.2 days from ad click to first wash (2024 internal pilot). Conversion funnel: 1,000 ad clicks -> 35 bookings (3.5% rate) -> 22 completed washes (63% show rate). Membership conversion: 38% of 3+ visit customers.

Retention: Loyalty program (10 visits = free wash) targets 72% annual retention. Email campaigns drive 28% repeat rate within 30 days. Churn target: 4.1% monthly vs 7.3% industry average.

Channel	Monthly Budget	CAC	L	Conv Rate	Customers/Mo	ROI	
Google Ads	\$7,100	\$67.00	2,535	3.5%	89	3.9x	
Facebook/Instagram	\$3,000	\$48.00	1,071	4.2%	45	5.2x	
Tesla Austin	\$0	\$0	200	8%	36	Infinite	
Fleet Contracts	\$500	\$12.50	40	100%	40	21.0x	
Referral Program	\$1,400	\$23.30	60	50%	30	16.3x	

Month	Google Ads	Social Media	Content/SEO	Events	Other	Total	Leads	Customers
1	\$7,100	\$3,000	\$500	\$1,000	\$0	\$11,600	6,206	195
2	\$7,100	\$3,000	\$500	\$500	\$0	\$11,100	5,934	186
3	\$7,100	\$3,000	\$500	\$0	\$0	\$10,600	5,662	178
4	\$7,100	\$3,000	\$500	\$0	\$0	\$10,600	5,662	178
5	\$7,100	\$3,000	\$500	\$0	\$0	\$10,600	5,662	178
6	\$7,100	\$3,000	\$500	\$0	\$0	\$10,600	5,662	178
7	\$7,100	\$3,000	\$500	\$0	\$0	\$10,600	5,662	178
8	\$7,100	\$3,000	\$500	\$0	\$0	\$10,600	5,662	178
9	\$7,100	\$3,000	\$500	\$0	\$0	\$10,600	5,662	178
10	\$7,100	\$3,000	\$500	\$0	\$0	\$10,600	5,662	178
11	\$7,100	\$3,000	\$500	\$0	\$0	\$10,600	5,662	178
12	\$7,100	\$3,000	\$500	\$0	\$0	\$10,600	5,662	178

7. Operations

Daily workflow: 8AM check-in -> 15-min pre-rinse/soap -> 20-min hand wash -> 10-min dry/inspection. Capacity: 16 vehicles/day/bay (8AM-6PM with 45-min avg service). Peak Saturday: 24 vehicles/day/bay (8AM-6PM with 30-min avg). Water reclamation system processes 1,200 gal/day, recycling 85%.

Technology: Square POS (\$60/mo) tracks inventory/labor; Booker CRM (\$120/mo) manages bookings; custom app (\$15k dev cost) enables loyalty tracking. All systems integrate with QuickBooks Online (\$30/mo).

Vendor/Supplier	Service	Monthly Cost	Contract Terms	Backup Option
EcoTouch Solutions	Cleaning products	\$1,800	12-mo, cancel 30 days	Green Works Pro
AquaCycle Systems	Water system maintenance	\$350	Quarterly service	Local plumbing co
DetailXPerts Supply	Towels/equipment	\$620	No contract	CarGuys Supply
Austin Resource Recovery	Waste disposal	\$180	Month-to-month	Waste Management

Tool	Purpose	Monthly Cost	Users	Alternatives
Square Register	POS/inventory	\$60	5	Toast
Booker by Fresha	Scheduling/CRM	\$120	2	Acuity
QuickBooks Online	Accounting	\$30	2	Xero
Custom Mobile App	Bookings/loyalty	\$0	Customers	N/A

8. Management Team

5 FTE staff: CEO (\$65k salary), COO (\$60k), Lead Detailer (\$48k), Marketing Manager (\$52k), 3 Technicians (\$38.4k avg). Salaries set at 90th percentile for Austin auto services (BLS 2023) to reduce turnover. No equity pool; performance bonuses fund 15% of salary.

Advisory board: David Chen (ex-CEO Zips Car Wash, 15 locations), Maria Lopez (Austin Sustainability Director, retired). Compensation: \$1,500/quarter meeting stipend.

Month	Role	Salary	Priority	Source	Onboarding
Apr 2024	CEO	\$5,417	1	Internal	Immediate
Apr 2024	COO	\$5,000	1	Internal	Immediate
Jun 2024	Lead Detailer	\$4,000	2	Indeed	2 weeks
Jul 2024	Marketing Manager	\$4,333	2	LinkedIn	3 weeks
Aug 2024	Technician 1	\$3,200	3	Craigslist	1 week
Aug 2024	Technician 2	\$3,200	3	Craigslist	1 week
Aug 2024	Technician 3	\$3,200	3	Craigslist	1 week

9. Financial Plan

Key assumptions: 15 new customers/week Month 1-3 (ramps to 25/week by Month 12). Avg revenue per customer: \$42.50. Monthly churn: 4.1% (vs 7.3% industry). COGS: 38% of revenue. Payroll: 44% of revenue Year 1 (scales to 38% by Year 3).

Revenue model: 80% wash services, 12% add-ons, 8% memberships. Growth drivers: Fleet contracts (target 3% revenue Month 1 -> 12% by Year 3), membership penetration (target 8% of revenue Year 1 -> 15% by Year 3).

Cost structure: 68% fixed costs (\$21,878/mo), 32% variable (\$10,300/mo at 800 washes). Fixed costs scale 3% annually; variable costs scale linearly with wash volume.

Funding: \$100,000 SBA loan covers 54% of \$185,000 startup. \$54,500 for water system, \$28,000 marketing, \$17,500 working capital. Provides 18 months runway to Month 14 profitability.

Category	Item	Cost	Notes
Legal	LLC filing	\$500	Texas SOS fee
Licensing	City of Dallas license	\$850	ABP-202
Licensing	Water/Pesaje permit	\$1,200	Austin Water Dept
Equipment	Water reclamation system	\$38,000	AquaCryo Systems
Equipment	Pressure washers (2)	\$6,000	AR Blue Clean 3600
Equipment	Vacuums (3)	\$2,400	Shop-Vac 12 gal
Technology	iPads (3)	\$2,100	iPad Air

	Technology app development	\$15,000	Contract fee
	Cleaning supplies (6 mo) Inventory	\$5,000	EcoTouch Solutions
	Towels/mitts (200 sets) Inventory	\$3,000	DetailXP Supply
	Website/signage Launch	\$10,000	Logo, banners, decals
	Launch campaign Launch	\$18,000	Google/Facebook ads pre-launch
	3 months operating expenses Capital	\$35,000	Based on \$11,666/mo pre-revenue
	General liability (annual) Insurance	\$5,400	\$450/mo x 12
	Accounting setup Professional Fees	\$2,500	Bookkeeper system
	10% buffer Contingency	\$18,500	10% of total
	TOTAL	\$185,000	

C	Type	Monthly Cost	Annual Cost	Notes
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Refined	\$5,000	\$60,000	2,800 sq ft @ \$21.43/sq ft
Salaries	\$15,000	\$180,000	5 FTEs @ avg \$3,000
Benefits	\$2,250	\$27,000	15% of payroll
Insurance	\$450	\$5,400	General liability + property
Software	\$240	\$2,880	Square, Booker, QuickBooks
Utilities	\$1,200	\$14,400	\$0.43/wa at 800/mo
Supplies	\$2,500	\$30,000	\$3.13/wa
Maintenance	\$2,333	\$28,000	Pre-set budget
Maintenance	\$800	\$9,600	\$1.00/wa
Loan Payment	\$1,195	\$14,340	SBA 7(a) @ 7.5%, 10-yr
Professional Services	\$300	\$3,600	Accounting
Miscellaneous	\$500	\$6,000	\$0.63/wa
Fixed Total	\$24,415	\$292,980	
Variable Total	\$5,100	\$61,200	

	COMBINED				\$29,515					\$354,180					
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Line Item	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	Y1 Total
Revenue	\$17,000	\$21,250	\$25,500	\$29,750	\$34,000	\$38,250	\$42,500	\$42,500	\$42,500	\$42,500	\$42,500	\$42,500	\$408,000
COGS	\$6,460	\$8,075	\$9,690	\$11,305	\$12,920	\$14,535	\$16,150	\$16,150	\$16,150	\$16,150	\$16,150	\$16,150	\$155,040
Gross Profit	\$10,540	\$13,175	\$15,810	\$18,445	\$21,080	\$23,715	\$26,350	\$26,350	\$26,350	\$26,350	\$26,350	\$26,350	\$252,960
Marketing	\$11,600	\$11,100	\$10,600	\$10,600	\$10,600	\$10,600	\$10,600	\$10,600	\$10,600	\$10,600	\$10,600	\$10,600	\$127,200
Salaries	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$180,000
Rent	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$60,000
Software	\$240	\$240	\$240	\$240	\$240	\$240	\$240	\$240	\$240	\$240	\$240	\$240	\$2,880
Insurance	\$450	\$450	\$450	\$450	\$450	\$450	\$450	\$450	\$450	\$450	\$450	\$450	\$5,400
Other OpEx	\$3,128	\$3,128	\$3,128	\$3,128	\$3,128	\$3,128	\$3,128	\$3,128	\$3,128	\$3,128	\$3,128	\$3,128	\$37,536
Total OpEx	\$35,418	\$34,918	\$34,418	\$34,418	\$34,418	\$34,418	\$34,418	\$34,418	\$34,418	\$34,418	\$34,418	\$34,418	\$413,016
EBITDA	-\$24,878	-\$21,743	-\$18,608	-\$15,973	-\$13,338	-\$10,703	-\$8,068	-\$8,068	-\$8,068	-\$8,068	-\$8,068	-\$8,068	-\$160,056
Depreciation	\$1,542	\$1,542	\$1,542	\$1,542	\$1,542	\$1,542	\$1,542	\$1,542	\$1,542	\$1,542	\$1,542	\$1,542	\$18,500
EBIT	-\$26,420	-\$23,285	-\$20,150	-\$17,515	-\$14,880	-\$12,245	-\$9,610	-\$9,610	-\$9,610	-\$9,610	-\$9,610	-\$9,610	-\$178,556
Interest	\$625	\$625	\$625	\$625	\$625	\$625	\$625	\$625	\$625	\$625	\$625	\$625	\$7,500
Taxes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Net Income	-\$27,045	-\$23,910	-\$20,775	-\$18,140	-\$15,505	-\$12,870	-\$10,235	-\$10,235	-\$10,235	-\$10,235	-\$10,235	-\$10,235	-\$186,056

Line Item	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
Beginning Cash	\$15,000	\$505	\$1,195	\$2,270	\$3,705	\$5,320	\$7,115	\$9,090	\$11,245	\$13,580	\$16,095	\$18,790
Cash In (Revenue)	\$8,500	\$10,625	\$12,750	\$14,875	\$17,000	\$19,125	\$21,250	\$21,250	\$21,250	\$21,250	\$21,250	\$21,250
Cash In (Loan)	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Cash In	\$108,500	\$10,625	\$12,750	\$14,875	\$17,000	\$19,125	\$21,250	\$21,250	\$21,250	\$21,250	\$21,250	\$21,250

Cash Out (COGS)	\$6,460	\$8,075	\$9,690	\$11,305	\$12,920	\$14,535	\$16,150	\$16,150	\$16,150	\$16,150	\$16,150	\$16,150
Cash Out (OpEx)	\$25,958	\$24,318	\$23,818	\$23,818	\$23,818	\$23,818	\$23,818	\$23,818	\$23,818	\$23,818	\$23,818	\$23,818
Cash Out (CapEx)	\$110,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Cash Out (Debt)	\$0	\$0	\$0	\$0	\$0	\$0	\$1,195	\$1,195	\$1,195	\$1,195	\$1,195	\$1,195
Total Cash Out	\$142,418	\$32,393	\$33,508	\$35,123	\$36,738	\$38,353	\$41,163	\$41,163	\$41,163	\$41,163	\$41,163	\$41,163
Net Cash Flow	-\$33,918	-\$21,768	-\$20,758	-\$20,248	-\$19,738	-\$19,228	-\$19,913	-\$19,913	-\$19,913	-\$19,913	-\$19,913	-\$19,913
Ending Cash	\$505	\$1,195	\$2,270	\$3,705	\$5,320	\$7,115	\$9,090	\$11,245	\$13,580	\$16,095	\$18,790	\$21,665

Metric	Y1	Y2 Q1	Y2 Q2	Y2 Q3	Y2 Q4	Y3 Q1	Y3 Q2	Y3 Q3	Y3 Q4	Y3 Total
Revenue	\$408,000	\$141,900	\$149,000	\$156,100	\$163,200	\$196,000	\$205,800	\$215,600	\$225,400	\$739,200
COGS	\$155,040	\$53,922	\$56,620	\$59,318	\$62,016	\$74,480	\$78,204	\$81,928	\$85,652	\$280,264
Gross Profit	\$252,960	\$87,978	\$92,380	\$96,782	\$101,184	\$121,520	\$127,596	\$133,672	\$139,748	\$458,936
OpEx	\$413,016	\$98,500	\$98,500	\$98,500	\$98,500	\$118,200	\$118,200	\$118,200	\$118,200	\$472,800
EBITDA	-\$160,056	-\$10,522	-\$6,120	\$-1,718	\$2,684	\$3,320	\$9,396	\$15,472	\$21,548	\$-13,864
Net Income	-\$186,056	-\$12,500	-\$7,800	-\$3,100	\$1,600	\$2,500	\$8,200	\$14,100	\$20,000	\$134,500
Ending Cash	\$21,665	\$17,500	\$25,000	\$35,000	\$47,000	\$60,000	\$75,000	\$92,000	\$110,000	\$110,000

Metric	Value	Calculation
Monthly Fixed Costs	\$24,415	From OpEx table
Variable Cost per Unit	\$6.38	(\$5,100 variable / 800 washes)
Price per Unit	\$42.50	Weighted average
Contribution Margin per Unit	\$36.12	\$42.50 - \$6.38

Contribution Margin %	85%	\$36.12 / \$42.50
Break-Even Units per Month	676	\$24,415 / \$36.12
Break-Even Revenue per Month	\$28,730	676 x \$42.50
Expected Break-Even Month	Month 14	Q2 Year 2 per cash flow
Safety Margin	15.5%	(800 - 676) / 800

Metric	Y1	Y2	Y3	Industry Benchmark
Gross Margin %	62%	63%	62%	55-65% (auto services)
Operating Margin %	-40.7%	-2.1%	18.2%	5-10% profitable ops
Net Profit Margin %	-45.6%	-1.4%	18.2%	5-8% avg
Current Ratio	1.1	1.8	2.3	1.5+ healthy
Quick Ratio	0.9	1.5	2.0	1.0+ healthy
CAC Payback	2.2 mo	1.8 mo	1.5 mo	6-18 mo acceptable
LTV:CAC	6.5:1	7.8:1	9.1:1	3:1 minimum
Monthly Burn Rate	\$15,505	\$0	N/A	N/A
Runway	18 mo	N/A	N/A	12+ mo required

10. Risk Analysis

Top risks: 1) Staff turnover (40% industry annual rate; 4/5 probability, 4/5 impact). 2) Water regulation changes (Austin drought stage 3; 3/5 probability, 5/5 impact). 3) New automated competitor (WashMo opening 2 miles away; 4/5 probability, 4/5 impact). 4) Revenue ramp 15% below plan (3/5 probability, 5/5 impact).

Mitigation: 1) Retention bonuses (\$1,200/yr/employee) + cross-training. 2) Exceed current standards (target 12 gal/wash vs 15 gal requirement). 3) Pre-sell 200 memberships (\$15,800 deposit) before launch. 4) Secure 3 fleet contracts (DoorDash: 150 vehicles @ \$20/wash).

Risk	Probability	Impact	Risk Score	Mitigation Strategy	Contingency Plan	Owner
Staff Turnover	4	4	16	\$1,200/yr retention bonuses; 90th percentile wages	Activate cross-trained admin staff	Tran
Water Regulations	3	5	15	Target 12 gal/wash (vs 15 gal requirement)	Apply for city conservation grant (\$5k)	Tran
New Competitor	4	4	16	Pre-sell 200 memberships (\$15,800)	Launch mobile detailing service	Ramirez
Slow Revenue Ramp	3	5	15	Secure 3 fleet contracts (150 vehicles)	Negotiate 3-mo rent abatement	Ramirez
Chemical Spills	2	5	10	Biodegradable products only; \$1M liability insurance	Activate spill response protocol	Tran
Recession	3	4	12	Introduce \$25 EcoWash Express tier	Reduce marketing spend 25%	Ramirez
Loan Default	1	5	5	Maintain 6-month cash reserve	Personal guarantee activation	Ramirez
App Failure	2	3	6	Manual backup system; \$5k dev reserve	Use paper booking system	Tran

11. Implementation Timeline

Critical path: Water system installation (60 days) must complete before staff training. Membership pre-sales require app launch 45 days pre-opening. Fleet contracts need 90-day negotiation cycles. Key dependency: City water permit approval before equipment installation.

Month	Milestone	Deliverables	Resources Needed	Success Metric	Owner
Apr 2024	Finalize SBA loan	Commitment letter	\$10k legal fees	7.5% interest rate	Ramirez
May 2024	Complete build-out	City CO	\$45k renovation budget	Pass final inspection	Tran
Jun 2024	Install water system	Operational test	\$38k equipment	12 gal/wash usage	Tran
Jul 2024	Hire key staff	5 signed contracts	\$5k recruitment	100% positions filled	Ramirez
Aug 2024	Staff training	Certification docs	200 training hours	100% pass rate	Mendez
Sep 2024	Launch marketing	Website/app live	\$18k ad budget	500 pre-launch leads	Liu
Oct 2024	Pre-sell memberships	200 contracts	\$3k referral budget	\$15,800 deposits	Liu
Nov 2024	Secure fleet contracts	3 signed agreements	40 sales hours	150 vehicles/month	Ramirez
Dec 2024	Soft launch	50 washes/day	Full staff	85% capacity utilization	Mendez
Jan 2025	Optimize operations	Process documentation	200 staff hours	42 min avg service time	Tran
Feb 2025	Implement loyalty program	500 app downloads	\$2k promotion	35% membership uptake	Liu
Mar 2025	Hit 1,000 washes/month	Financial report	Full marketing spend	\$42,500 revenue	Ramirez