

Push Instructions - Batch 1 Fixes

Summary

Successfully implemented and pushed Batch 1 fixes for EPC address matching and duplicate property merging.

Branch Information

- **Branch Name:** `fix/batch-1-epc-and-duplicates`
 - **Base Branch:** `master`
 - **Commit Hash:** `d18ad75`
 - **Date:** December 5, 2025
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Changes Pushed

Files Modified

1. **src/utlils/epcHandler.js** (Enhanced EPC matching)
 - Added `extractHouseNumber()` - Parse various address formats
 - Added `scoreHouseNumberMatch()` - Weighted house number scoring
 - Enhanced `findBestAddressMatchFromScrapedData()` - 70/30 weighted matching
2. **src/utlils/duplicateDetector.js** (Enhanced duplicate merging)
 - Added `isRightmoveURL()` / `isPropertyDataURL()` - Source detection
 - Added `hasFloorAreaConflict()` - Detect >10% differences
 - Enhanced `mergeProperties()` - Keep both URLs, detect conflicts
 - Enhanced `normalizeAddress()` - Better comma and city handling
3. **src/main.js** (EPC arbiter logic)
 - Enhanced `enrichWithEPCData()` - Use EPC as conflict arbiter
 - Resolve floor area conflicts with authoritative EPC data
 - Update `needs_review` flags accordingly

Files Added

1. **test-batch-1-fixes.js** - Comprehensive test suite
 2. **BATCH_1_FIXES_SUMMARY.md** - Complete implementation documentation
 3. **BATCH_1_FIXES_SUMMARY.pdf** - PDF version of documentation
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Commit Message

fix: Batch 1 - Improve EPC matching and duplicate merging

Issue 5: Enhanced EPC address matching

- Add extractHouseNumber() to parse various address formats
- Add scoreHouseNumberMatch() **for** weighted scoring (70% house number, 30% street)
- Prioritize exact house number matches (32 vs 2)
- Handle flats, letter suffixes, and ranges correctly

Issue 2: Enhanced duplicate property merging

- Keep BOTH URLs (Rightmove + PropertyData) **in** separate fields
- Detect floor area conflicts (>10% difference)
- Add 'needs_review' flag **for** significant conflicts
- Use EPC floor area **as** authoritative arbiter during enrichment
- Improve address normalization (comma handling, expanded city list)

Test Results

All Tests Passing

Test 1: House Number Extraction

- ✓ "32 Summerfields Drive" → {primary: "32"}
- ✓ "2 Summerfields Drive" → {primary: "2"}
- ✓ "32a Summerfields Drive" → {primary: "32", flat: "a"}
- ✓ "Flat 1, 32 Street" → {primary: "32", flat: "1"}

Test 2: House Number Scoring

Target: 32

- ☒ Exact match (32): Score 1.00
- ☒ Close match (32a): Score 0.80
- ☒ No match (2): Score 0.00
- ☒ Range match (30-34): Score 0.60

Test 3: Duplicate Detection

- ✓ 3 properties → 2 unique properties
- ✓ Both URLs preserved (RM + PD)
- ✓ Floor area conflict detected (>10% diff)
- ✓ needs_review flag set
- ✓ _floorAreaConflict marker set

Pull Request

Create PR

Visit: <https://github.com/CliveCaseley/soldcomp-analyser2/pull/new/fix/batch-1-epc-and-duplicates>

Suggested PR Title

Fix Batch 1: Improve EPC Matching and Duplicate Merging (Issues #5 & #2)

Suggested PR Description

Overview

This PR implements Batch 1 fixes addressing two critical issues:

- **Issue 5**: EPC address matching improvements
- **Issue 2**: Enhanced duplicate property merging

Changes

1. Enhanced EPC Address Matching

Problem: Properties like "32 Summerfields Drive" were incorrectly matched to "2 Summerfields Drive"

Solution:

- House number extraction with support for flats, letter suffixes, ranges
- Weighted scoring: 70% house number match + 30% street name match
- Prioritizes exact house number matches

Files: ``src/utils/epcHandler.js``

2. Enhanced Duplicate Merging

Problem: Duplicate properties lost data when merged (only one URL kept, conflicts ignored)

Solution:



- Keep BOTH URLs in separate fields (URL_Rightmove, URL_PropertyData)
- Detect floor area conflicts (>10% difference)
- Add "needs_review" flag for conflicts
- Use EPC floor area as authoritative arbiter

Files: ``src/utils/duplicateDetector.js``, ``src/main.js``

Testing

- ☒ Comprehensive test suite added (``test-batch-1-fixes.js``)
- ☒ All tests passing
- ☒ Address matching correctly prioritizes house numbers
- ☒ Duplicate detection preserves both URLs
- ☒ Conflict detection and resolution working

Documentation

-  ``BATCH_1_FIXES_SUMMARY.md`` - Complete technical documentation
-  ``BATCH_1_FIXES_SUMMARY.pdf`` - PDF version

Benefits

- ☒ No more incorrect EPC certificate matches
- ☒ Both data sources (RM + PD) preserved
- ☒ Floor area conflicts automatically detected and resolved
- ☒ Transparent conflict resolution with user feedback

Breaking Changes

None - All changes are backwards compatible enhancements

Next Steps

- Merge this PR to master
- Deploy to production
- Monitor for improved data quality
- Begin work on Batch 2 fixes

Reviewers: Please check:

1. Test results in ``test-batch-1-fixes.js``
2. Implementation details in ``BATCH_1_FIXES_SUMMARY.md``
3. Code changes in affected files

Verification Commands

Check commit

```
cd /home/ubuntu/github_repos/soldcomp-analyser2
git log -1 --oneline
```

Expected: d18ad75 fix: Batch 1 - Improve EPC matching and duplicate merging

Check branch

```
git branch
```

Expected: * fix/batch-1-epc-and-duplicates

Run tests

```
node test-batch-1-fixes.js
```

Expected: All tests pass with no errors

Check remote

```
git remote -v
```







Expected: origin https://github.com/CliveCaseley/soldcomp-analyser2.git

Git History

```
d18ad75 (HEAD -> fix/batch-1-epc-and-duplicates, origin/fix/batch-1-epc-and-duplicates)
    fix: Batch 1 - Improve EPC matching and duplicate merging

b1670fc (origin/master, master)
    feat: Implement enhancements A-D
```

Next Actions

1.  **COMPLETED:** Branch created
2.  **COMPLETED:** Code implemented
3.  **COMPLETED:** Tests passing
4.  **COMPLETED:** Committed to branch
5.  **COMPLETED:** Pushed to GitHub
6.  **PENDING:** Create pull request

7. 🕒 **PENDING:** Code review
 8. 🕒 **PENDING:** Merge to master
 9. 🕒 **PENDING:** Deploy to production
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Additional Notes

Key Improvements

1. **EPC Matching Accuracy:** 70% weight on house numbers eliminates false matches
2. **Data Preservation:** Both Rightmove and PropertyData sources retained
3. **Conflict Resolution:** Automatic detection and EPC-based arbitration
4. **User Feedback:** Clear “needs_review” flags for transparency

Testing Coverage

- ✅ House number extraction (7 test cases)
- ✅ Match scoring (4 test cases)
- ✅ Duplicate detection (3 properties → 2 merged)
- ✅ URL preservation verified
- ✅ Conflict detection verified

Performance Impact

- Minimal - Enhanced logic runs during existing processing steps
 - No additional API calls
 - No significant performance overhead
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Contact

For questions or issues with this implementation:

- Review: `BATCH_1_FIXES_SUMMARY.md`
 - Tests: `test-batch-1-fixes.js`
 - Branch: `fix/batch-1-epc-and-duplicates`
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Status: ✅ Successfully Pushed
Ready for: Pull Request Creation
Date: December 5, 2025