***Business Reason***

Capture doesn’t currently have the logic to account for the wide variety of waste types processed by Republic.

***Task Requirements***

* Add ‘Special Handling Codes’
* Add new waste types
* Add ‘Unit of Measure’
* Add text area for ‘Contaminated Rate’ information
* Add text area for notes by container
* Add option for ‘Processing’ or ‘Disposal’ on output documents
* Update cost calculations
* Add 5% spread to disposal guardrails
* Make ‘Authorized By’ field
* Add new marketing materials
* Update recommended item rule for large containers to account for new attributes
* Update Documents
  + New container comments
  + ‘Special Handling Code’ on CSA
  + ‘Sample Invoice’ updates

***Build Plan***

1. New Attribute: Special Handling Codes
   1. Variable Name: *specialHandlingCodes*
   2. Product Family: Republic Services
   3. Editable
   4. Single Select Menu
   5. Pushed to CSA
   6. Added to Large Container Config Layout
   7. Populated with a list from Infopro
   8. No constraints or defaults
2. Add New Waste Types
   1. Attribute: Waste Type\* (wasteType)
   2. Other waste types already exist, the Div\_Waste\_Types table just needs to be updated
3. New Attribute: Unit of Measure
   1. Single Select Menu
      1. Variable Name: *unitOfMeasure*
      2. {Per Load, Per Ton, Per Yard}
      3. Constrained by Waste Type and Division *(Which Table?)*
   2. Disposal Locations constrained by Unit of Measure
      1. Change action of rule: ‘setDisposalSiteCoordinates’ on the large container level of recommendation rules
         1. For closestDisposalSitesCoordinates, Line 162:

resultset = bmql("SELECT Disposal\_Site\_Cd, Site\_Name, DisposalSite\_DivNbr, WasteType, Latitude, Longitude, Extra\_On\_Site\_Mins, is\_RSG\_owned FROM Disposal\_Sites WHERE ($isDivisionNotNull AND DisposalSite\_DivNbr = $division\_config) AND ($isWasteTypeNotNull AND WasteType = $wasteType) ***AND unit\_of\_measure = $unitOfMeasure***");

* 1. Change Rec Item Rule to pass UoM to the Commerce line item grid – Needs to import *unitOfMeasure*

Line 75:

thisPartStr = replace(thisPartStr, OCCURRENCE\_STR, ***unitOfMeasure***);

1. CSA Comments – *I need to call Becky and confirm what the functionality is going to be*
   1. Contaminated Waste
      1. New Attribute: Contaminated Rate?
         1. Created at the product family level
         2. Variable name: *contaminatedRateBoolean*
         3. Boolean
         4. User selected
         5. Hides 'Contaminated Rate Info'
      2. New Attribute: Contaminated Rate Info
         1. Created at the product family level
         2. Variable name: *contaminatedRateInfo*
         3. Text Area
         4. Hidden by Contaminated Rate?
         5. Pushed to CSA Comments
         6. *Should this be editable after config? Yes,*  *I think*
      3. Add both to the small and the large container layouts
   2. General Container Notes
      1. New Attribute: Container Notes
         1. Text Area
         2. Collapsed?
         3. *Defaults values of Delivery Notes, Service Notes, or new note area?*
2. New Attribute: Disposal Label
   1. Created at the product family level
   2. Variable name: *disposalLabel*
   3. Default value driven by waste category – is this possible? rec rule that only sets? When?
   4. Editable
   5. Single select menu
   6. {Disposal, Processing}
   7. Add to the Large Container Layout
3. Disposal Cost Calculation
   1. Changes in Large Container Pricing
      1. Add variables at top – Line 145

disposalCostPerTonStr = “”;

***disposalCostPerYardStr = “”;***

***disposalCostPerLoadStr = “”;***

* + 1. Change the disposal sites lookup to consider unit of measure, created separate disposal variables

disposalSiteCostsRecordSet = bmql("SELECT WasteType, cost, dsp\_xfer\_priceperton ***unit\_of\_measure*** FROM Disposal\_Sites WHERE Site\_Name = $siteName AND WasteType = $wasteType AND DisposalSite\_DivNbr = $division ***AND unit\_of\_measure = $unitOfMeasure*"**);

for eachRecord in disposalSiteCostsRecordSet{

***if(get(eachRecord, "unit\_of\_measure") == "Ton"){***

disposalCostPerTonStr = get(eachRecord, "cost");

***}elif(get(eachRecord, "unit\_of\_measure") == "Yard"){***

***disposalCostPerYardStr = get(eachRecord, "cost");***

***}elif(get(eachRecord, "unit\_of\_measure") == "Load"){***

***disposalCostPerLoadStr = get(eachRecord, "cost");***

***}***

wasteType\_db = get(eachRecord, "WasteType");

dsp\_xfer\_price\_per\_ton\_str = get(eachRecord, "dsp\_xfer\_priceperton");

//if wastetype is solid waste, but disp transfer price is 0.0, get the price for 3rd part disposal which is in KPI table

//If waste type is not solid waste (then all other are recycling wastes), 3rd party does not apply, so in that case, 0.0 value for disp transfer price should be used as is in calculations

if(lower(wasteType\_db) == "solid waste" AND dsp\_xfer\_price\_per\_ton\_str == "0.0"){

thirdPartyDispTrsferPriceRecSet = bmql("SELECT default\_disposal\_3p FROM tbl\_division\_kpi\_ind WHERE div\_nbr = $division");

for each in thirdPartyDispTrsferPriceRecSet{

dsp\_xfer\_price\_per\_ton\_str = get(each, "default\_disposal\_3p");

break;

}

}

break; //Only one record is expected

}

disposalCostPerTon = 0.0;

if(isnumber(disposalCostPerTonStr)){ //Convert the table result to a float for use in calculations

disposalCostPerTon = atof(disposalCostPerTonStr);

}

***disposalCostPerYard = 0.0;***

***if(isnumber(disposalCostPerYardStr)){***

***disposalCostPerTon = atof(disposalCostPerYardStr);***

***}***

***disposalCostPerLoad = 0.0;***

***if(isnumber(disposalCostPerLoadStr)){***

***disposalCostPerTon = atof(disposalCostPerLoadStr);***

***}***

put(returnDict, "disposalCostPerTon", string(disposalCostPerTon));

***put(returnDict, "disposalCostPerYard", string(disposalCostPerYard));***

***put(returnDict, "disposalCostPerLoad", string(disposalCostPerLoad));***

* + 1. Disposal\_Sites needs more data
  1. Add 5% spread for disposal numbers

1. 'Authorized By' Field
   1. AuthorizedBy\_Quote - can be made editable
   2. AuthorizedByforGenDocumentation\_Quote - Read only Attr, not editable
   3. *Needs Investigation*
2. Marketing
   1. Option A
      1. New Boolean Attribute for each marketing to be added
      2. Checkboxes alongside the large and small container marketing
   2. Option B
      1. New Multi-Select Menu Attribute
      2. Set of checkboxes, More cumbersome on the layout
      3. Easier to adjust what is availible, add new materials
   3. Antenna House the PDFs, similar to how Small/Large container Marketing is currently done
3. Change Large Container Rec Item Rule
   1. Change code to handle new UOM attribute
   2. Passed as part of line item comment
4. Document Changes
   1. Monthly Summary should work as is
   2. *Sample Invoice, Needs specificity on where the change should show up*
   3. Updates to CSA to pull in Special Handling Code from config

***Admin Guide Changes***

***User Guide Changes***