RISK RESPONSE PLAN

Project Name			URStreamSight	
#	**Risk**	**Risk Response**	**Description**	**Contingency Plan**
1	Limited Dataset	Mitigate	Mitigate the risk by collecting images as early as possible in the process to allow time for collection and filtering of images.	If a limited dataset occurs, the dataset could be potentially augmented by existing datasets of recycling and contaminants such as TACO, this is not perfect as the context is not quite the same but it could ease issues. Additionally, images could be captured by manual bin tips if needed.
2	Poor Quality Model	Mitigate	Mitigate the risk by starting with a model such as MASK RCNN that can handle object identification already instead of building a completely new model.	If model quality continues to be low, there are a couple contingencies: If the model quality is low due to lack of training time, a high powered machine could be used for training to allow for more training in less time. If model quality is low due to lack of images, more images could be collected/added as stated above. If model quality continues to be low, additional research and time would be needed for the cutting edge technology.

| 3 | Poor quality of images captured | Avoid | Avoid the risk by using a higher quality camera already to ensure images captured have a better chance of meeting quality standards. | As above with risk #1, images captured manually or from existing datasets could help with model training if initial images are low quality. Research even higher quality camera setups and upload higher quality images to AWS S3 to reduce compression. |