

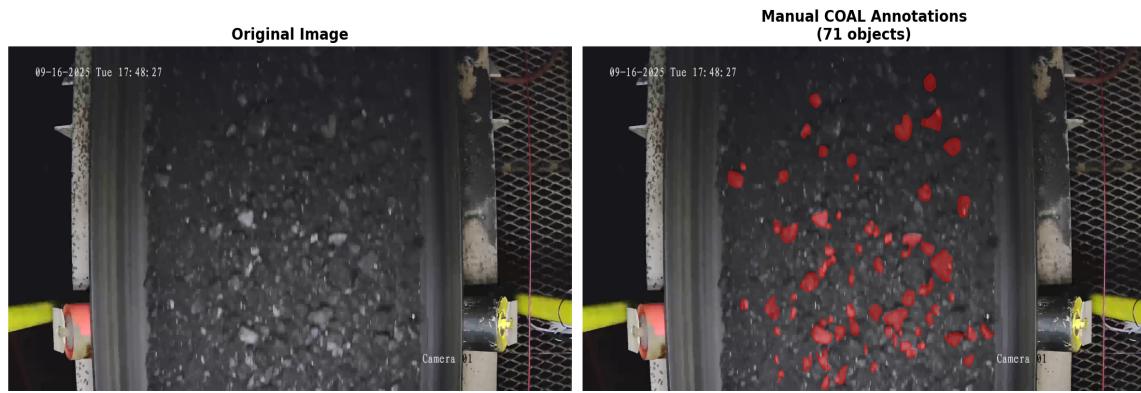
SAM Enhanced Comparison Report - 15_18

IOU Summary Statistics

Metric	Value	Definition
Total Images Processed	9	Number of images with valid IOU calculations
Mean IOU	0.232	Average Intersection over Union across all images
Max IOU	0.401	Highest IOU value achieved in any single match
Avg Manual Objects per Image	52.1	Average number of manually annotated COAL objects per image
Avg SAM Objects per Image	34.0	Average number of SAM-detected objects per image
Total Manual Objects	469	Total count of manually annotated COAL objects across all images
Total SAM Objects	306	Total count of SAM-detected objects across all images
Matched Manual Objects	135	Number of manual objects that have IOU > 0.5 with SAM objects
Matched SAM Objects	136	Number of SAM objects that have IOU > 0.5 with manual objects
Manual Match Rate	28.8%	Percentage of manual objects successfully matched by SAM
SAM Match Rate	44.4%	Percentage of SAM objects that match manual annotations

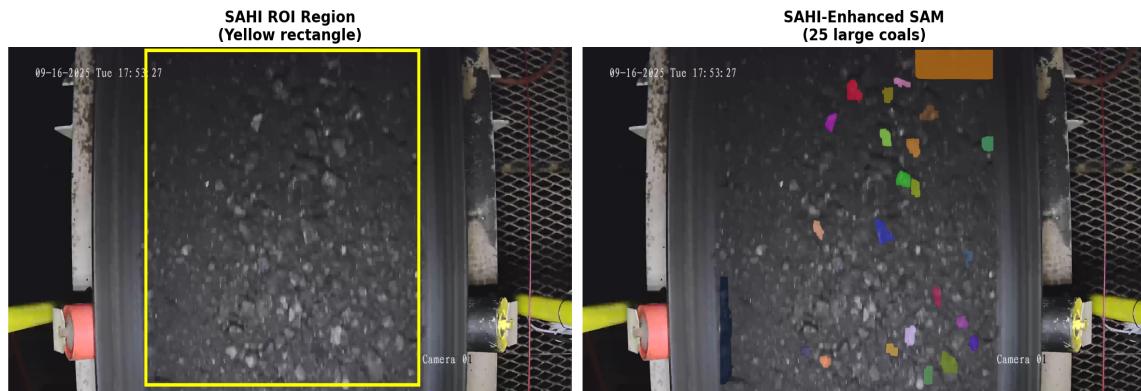
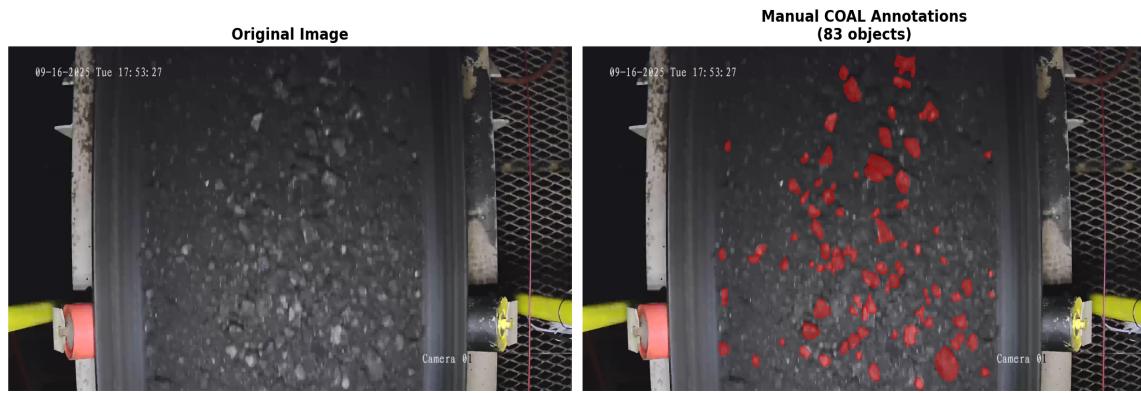
Detailed Results by Image

Image: D2_20250916173826_20250916180414_frame_0002



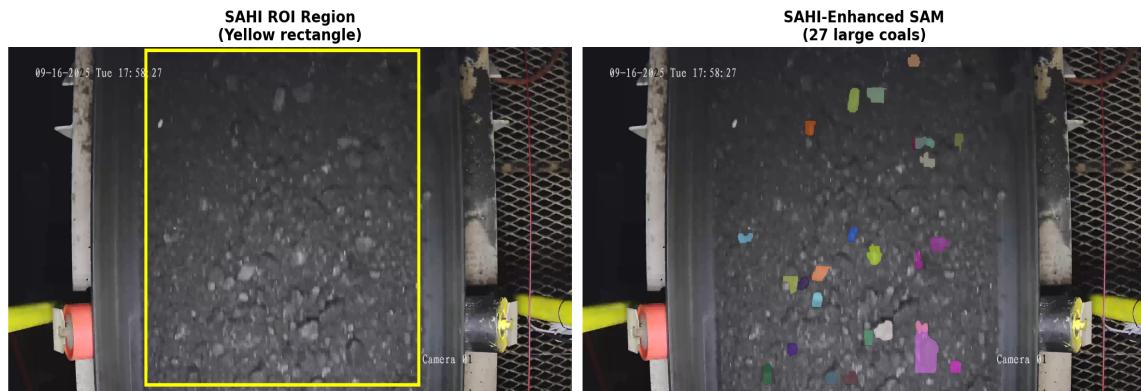
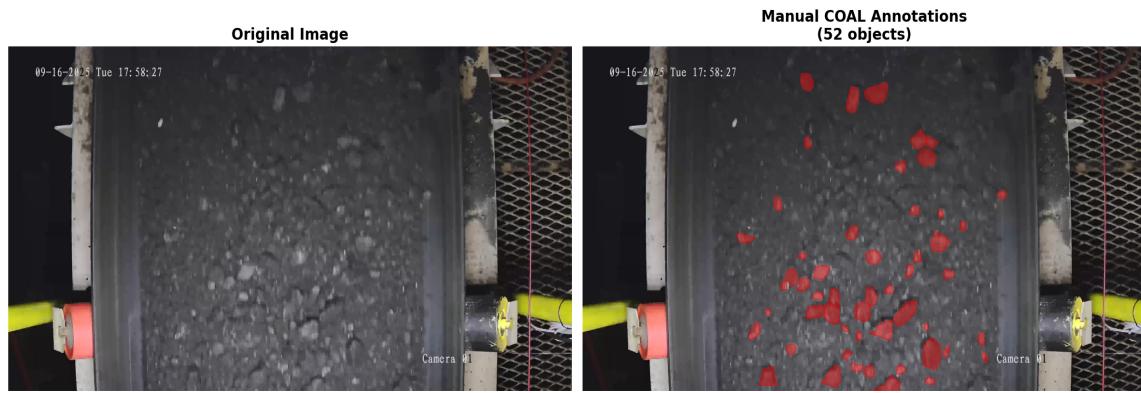
Metric	Value
Mean IOU	0.144
Max IOU	0.849
Manual Objects	71
SAM Objects	24
Matched Manual	13
Matched SAM	13

Image: D2_20250916173826_20250916180414_frame_0003



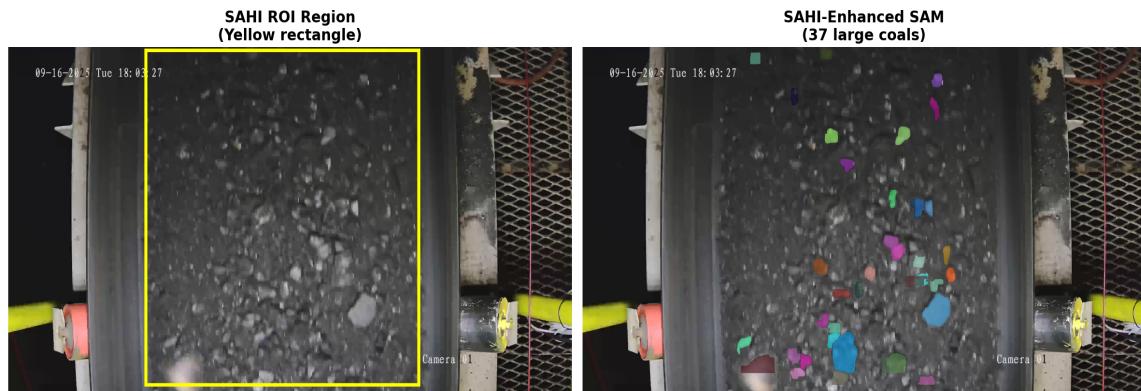
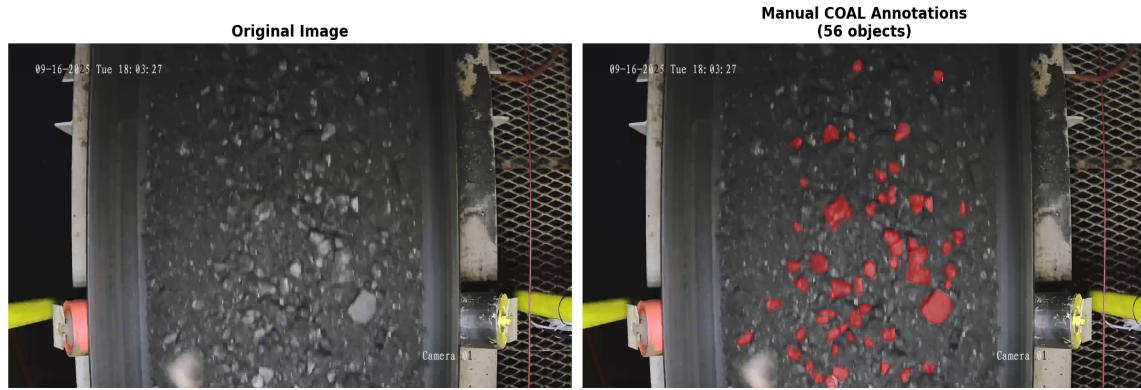
Metric	Value
Mean IOU	0.155
Max IOU	0.878
Manual Objects	83
SAM Objects	25
Matched Manual	16
Matched SAM	16

Image: D2_20250916173826_20250916180414_frame_0004



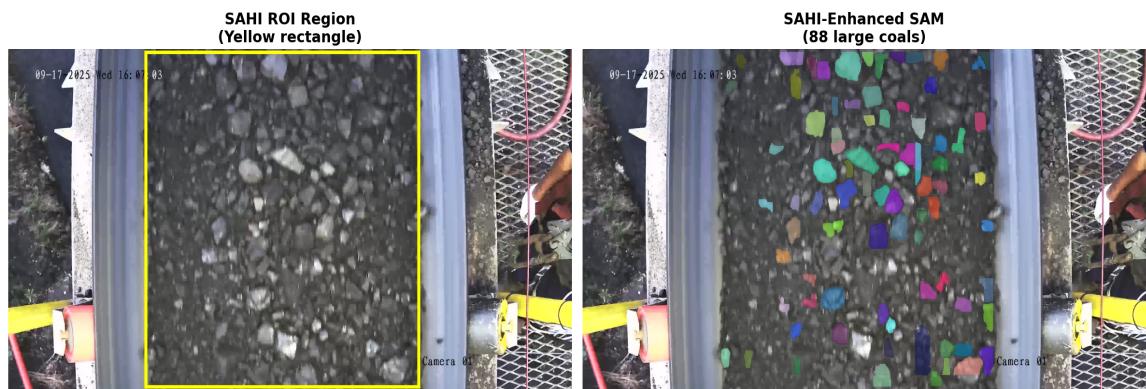
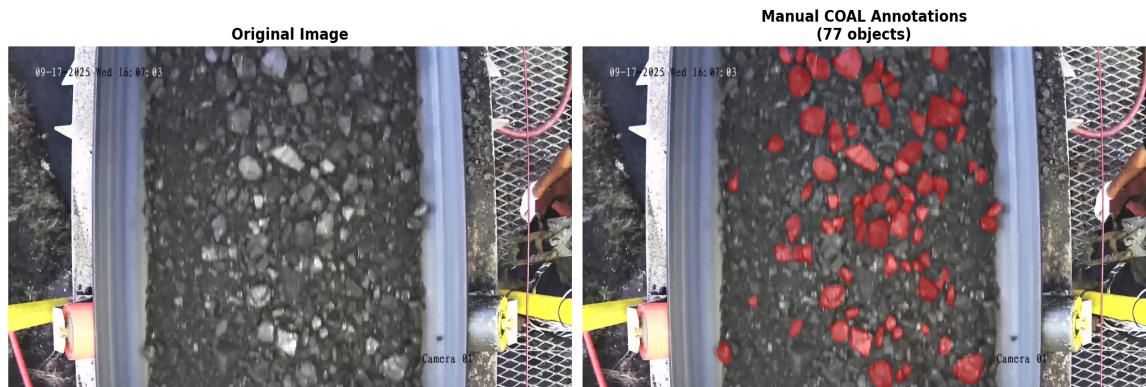
Metric	Value
Mean IOU	0.229
Max IOU	0.838
Manual Objects	52
SAM Objects	27
Matched Manual	15
Matched SAM	15

Image: D2_20250916173826_20250916180414_frame_0005



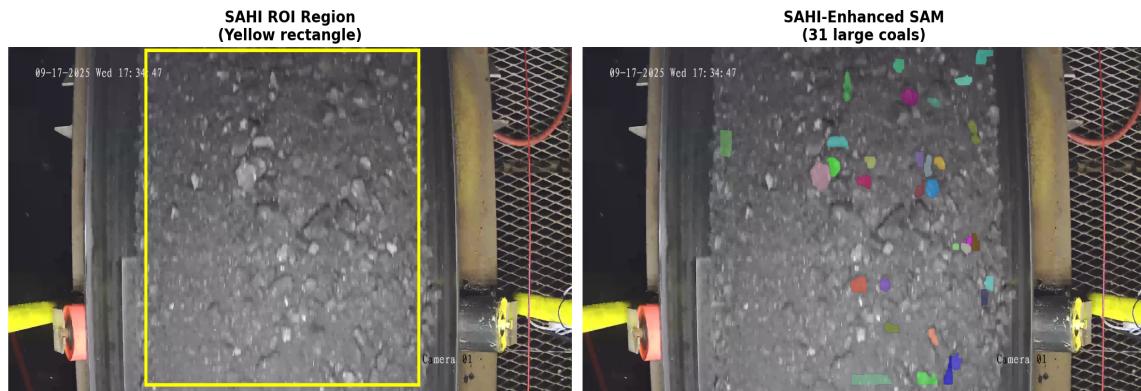
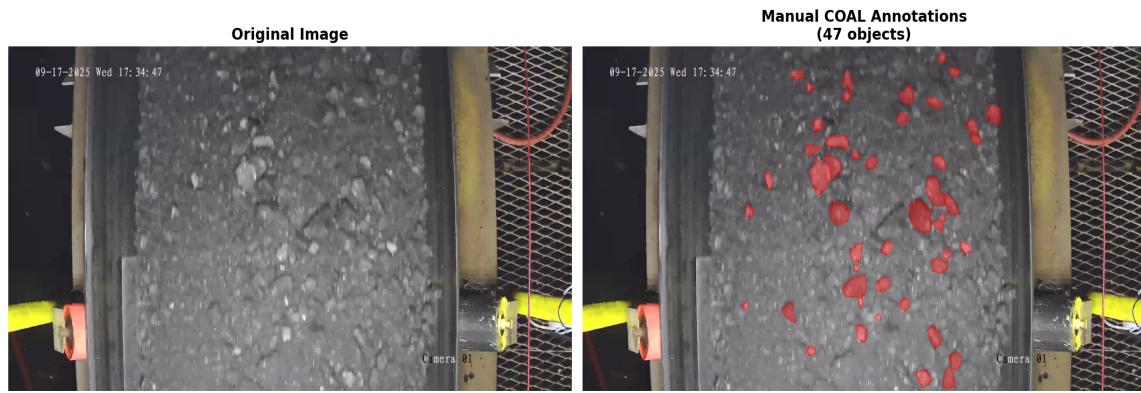
Metric	Value
Mean IOU	0.257
Max IOU	0.863
Manual Objects	56
SAM Objects	37
Matched Manual	17
Matched SAM	17

Image: D2_20250917155705_20250917162522_frame_0002



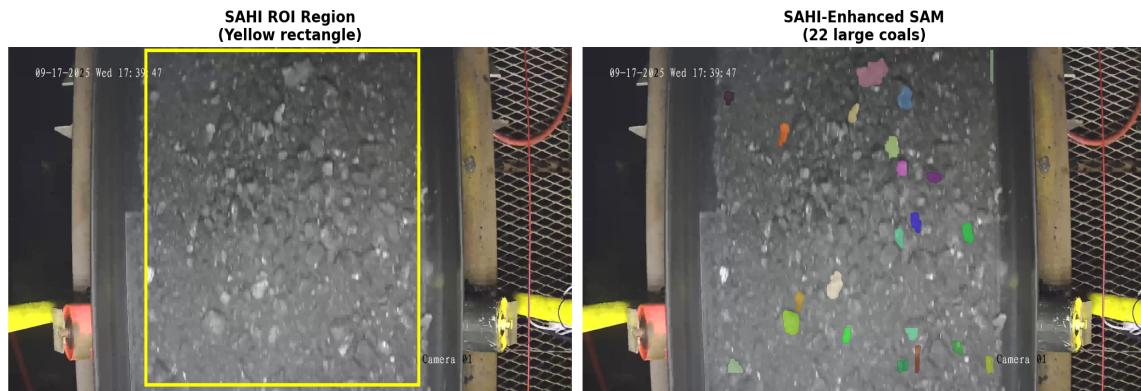
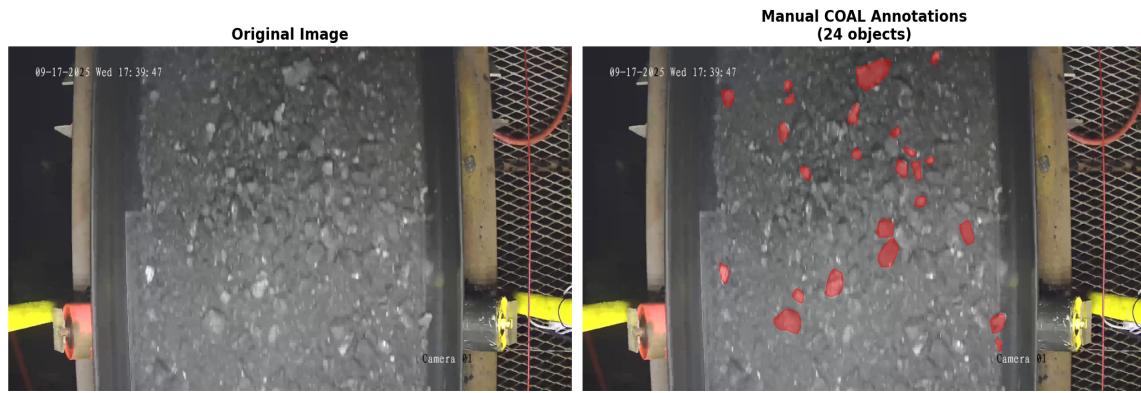
Metric	Value
Mean IOU	0.401
Max IOU	0.892
Manual Objects	77
SAM Objects	88
Matched Manual	36
Matched SAM	36

Image: D2_20250917172948_20250917174619_frame_0001



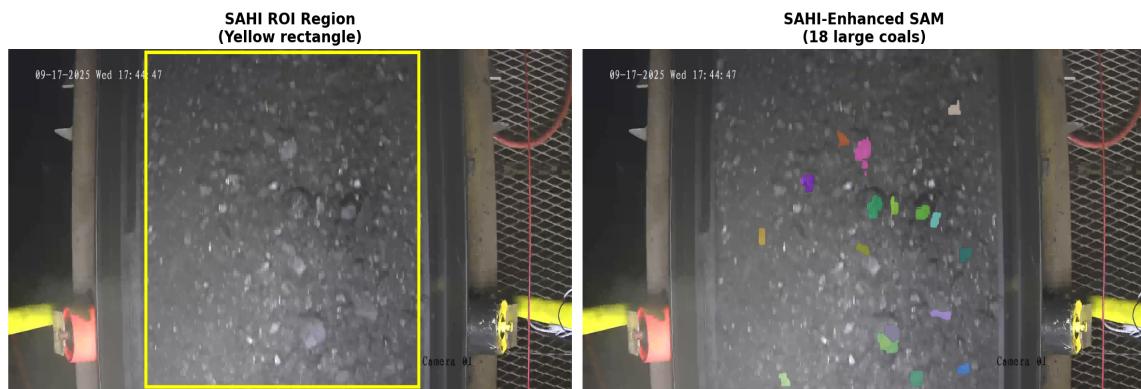
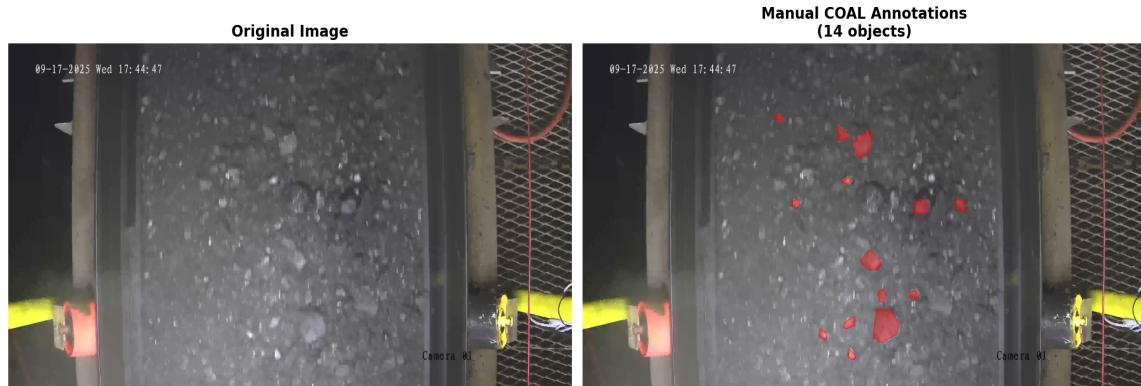
Metric	Value
Mean IOU	0.248
Max IOU	0.862
Manual Objects	47
SAM Objects	31
Matched Manual	15
Matched SAM	16

Image: D2_20250917172948_20250917174619_frame_0002



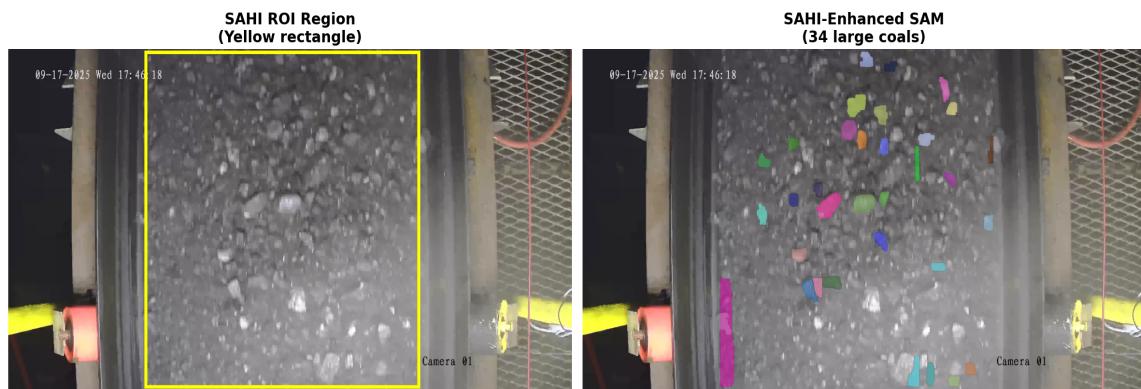
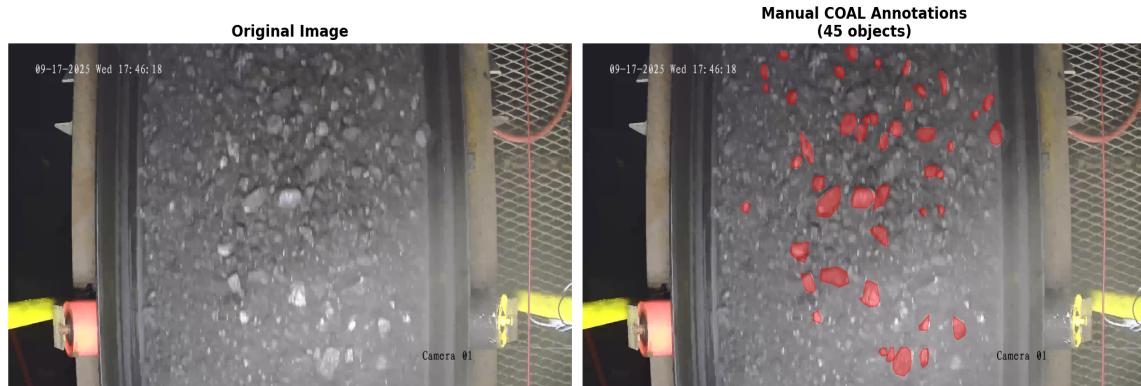
Metric	Value
Mean IOU	0.265
Max IOU	0.816
Manual Objects	24
SAM Objects	22
Matched Manual	8
Matched SAM	8

Image: D2_20250917172948_20250917174619_frame_0003



Metric	Value
Mean IOU	0.182
Max IOU	0.730
Manual Objects	14
SAM Objects	18
Matched Manual	3
Matched SAM	3

Image: D2_20250917174619_20250917181530_frame_0000



Metric	Value
Mean IOU	0.202
Max IOU	0.820
Manual Objects	45
SAM Objects	34
Matched Manual	12
Matched SAM	12