

RAPID ASSESSMENT...
HOW FAR WAS THE
SURGE...
DRONE AND VIDEO
DATA...

GBPA / NEMA
2nd Oct 2019

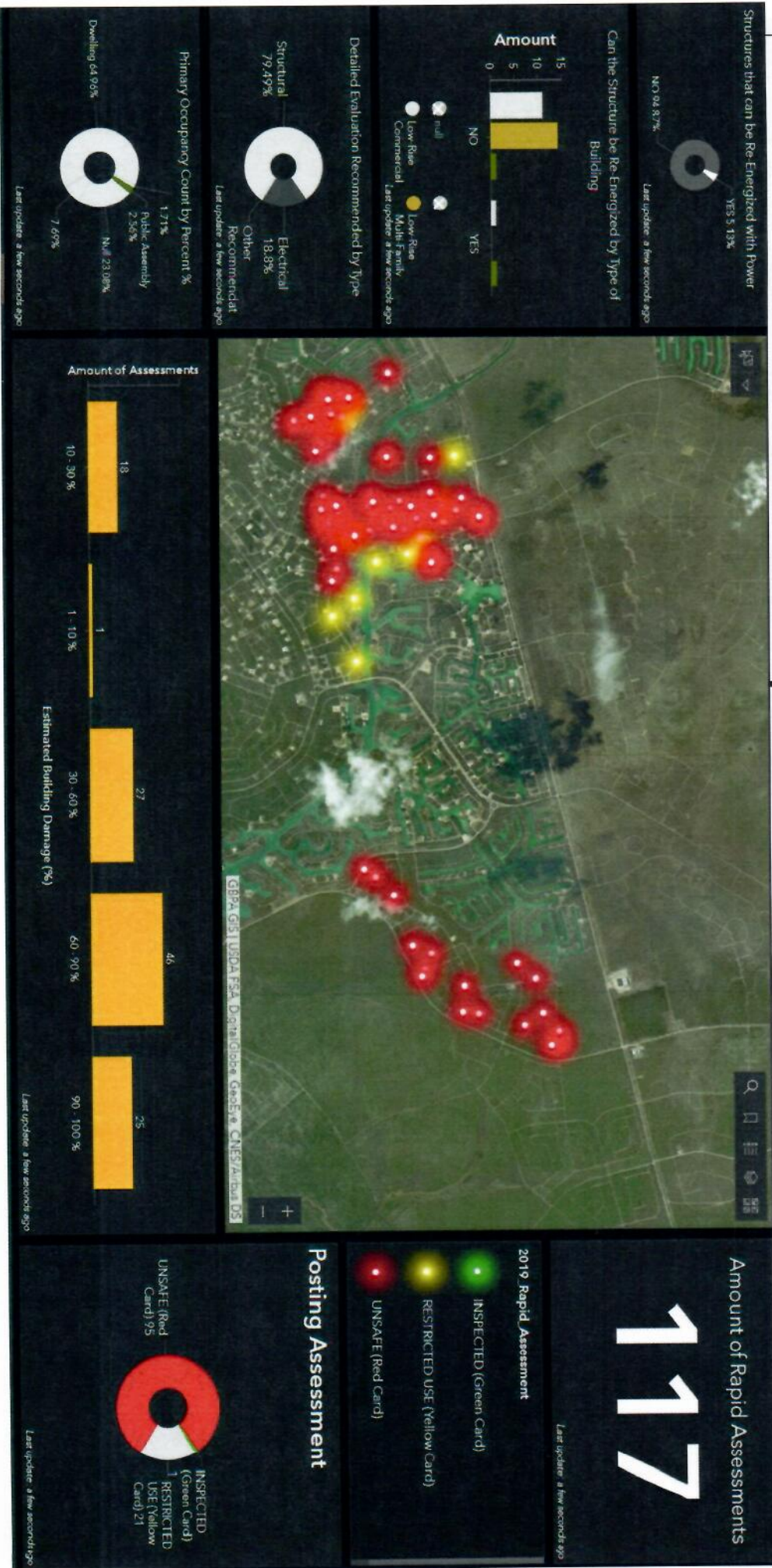
Hurricane Dorian Flood Permitting Data (Freeport)

Subdivisions	Not Flooded	Flooded	Weather head	Roof Damage	Reported Max. Flood Levels
Bahamia North	20	4	0	0	4ft.
Bahamia West Replat	20	3	1	0	2ft.
Bahamia South	5	2	2	2	2ft.
Bahama Terrace	2	0	0	0	
Caravel Beach	2	0	3	1	
Central Area	34	29	0	1	2ft.
Central Area West	4	1	0	0	
Civic Industrial Area	36	28	0	0	5ft.
Columbus Estates	29	26	0	1	4ft.
Coral Reef	170	44	0	1	1.6in.
East Coral Estates	108	58	0	1	6ft.
East Section	233	68	0	0	3ft.
Exotica	2	0	0	0	
Fairfield	12	4	0	0	4ft.
Freeport Ridge	4	3	0	0	5ft.
Hawkbill	49	18	0	1	6ft.
Heavy Industrial Area	1	8	0	0	4ft.
Heritage	87	62	0	5	4ft.
Hudson Estates	58	136	0	0	6ft.
Imperial Park	3	0	2	1	
Mayfield Park	67	34	0	2	3ft.
Park Royal	2	0	0	0	
Poinciana Gardens	34	28	0	0	4ft.
Regency Park	3	49	1	0	6ft.
Royal Bahamia Estates	28	3	0	1	1.5 in.
Seahorse Village	1	0	0	0	
Sunset	4	39	0	0	6ft.
Sunrise Park	41	11	0	0	3ft.
Wellington Pinder Heights	1	0	0	0	
West Section	80	25	0	1	4ft.
Windsor Park	2	0	0	0	
TOTALS	1142	683	9	18	

Hurricane Dorian Flood Permitting Data (Lucaya)

Subdivisions	Not Flooded	Flooded	Weather head	Roof Damage	Reported Max. Flood Levels
Arden Forest	77	52	0	0	3ft.
Bahama Reef	2	1	0	1	3ft.
Bell Channel	3	0	0	0	
Bristol Bay	2	1	0	0	8ft
Colony Bay	1	0	0	0	
Chesapeake	1	7	0	0	12in.
Emerald Bay	0	2	0	0	20ft.
Fortune Bay	4	0	0	0	
Fortune Cay	0	22	0	0	2ft.
Fortune Point	6	0	0	1	
Grasmere	58	34	0	1	5ft.
Greening Glade	22	6	0	1	18in.
Lincoln Green	61	2	2	0	20ft.+
Lincoln Park	11	0	0	0	
Lucayan Beach	3	0	0	0	
Lucayan Knoll	15	2	0	0	
Lucayan Ridge	7	0	0	0	
Pine Bay	2	4	0	1	15ft.
Richmond Park	3	1	0	0	
Sentinel Bay	3	2	0	0	9ft.
Shannon	2	0	0	0	
Sherwood Forest	2	0	0	0	
Winchester	2	1	0	0	
Yeoman Wood	194	62	0	0	3ft.
TOTALS	481	199	2	5	

GBPA BDS Rapid Assessment



186 supporting with owner.

Extent of Drone Images



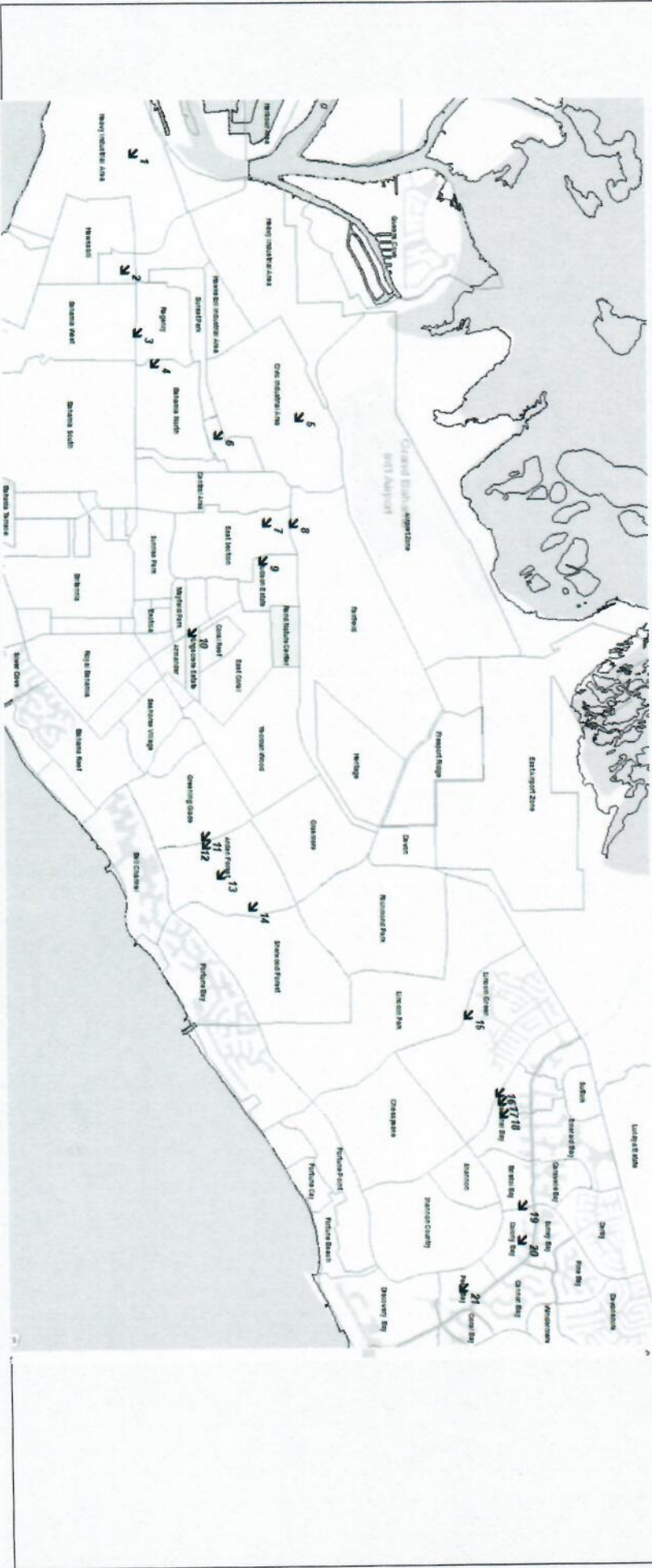
Royal Palm Bay / Sentinel Bay Cont'd (Pre-H5)



Royal Palm Bay / Sentinel Bay Cont'd (Post
H5 Dorian)



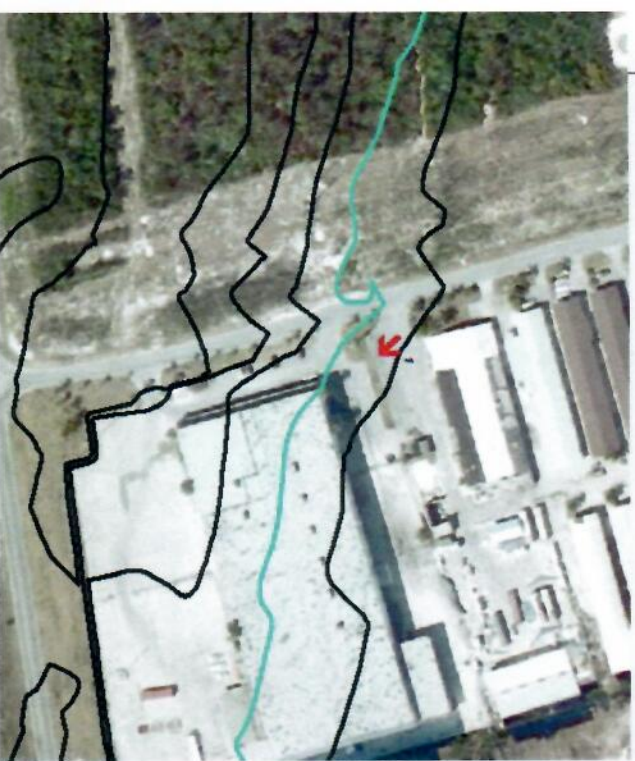
Geographical Extent of Collected Data



GPS ID 1 - Heavy Industrial Area (West)

GPS Location fell between 10 and 12 foot contour

Spoke to Local Business Place (Right Bld)



GPS ID 21 - Pearl Bay (East)



GPS Location fell just on the 14 foot contour

Spoke to resident who witnessed the surge and pointed out the limit



An Approx. Estimation of the Surge Limit

Image shown using the 15 foot contour and sample points (left)
CNN Reported Flood Map (right)



(CNN) — A striking satellite image of Grand Bahama Island shows vast areas of the island under water after Hurricane Dorian passed through the region on Monday.
For comparison, we've included an image that shows the same regions of the island prior to Hurricane Dorian

From what we know...

- From West to East – the observed water limit from 21 observed locations ranged from the min. 10-12 foot contour to max. 18 foot contour, within the Freeport Area of GBPA...before the Salt Water Canal
 - everything on the other side was impacted
- Surge was worse than reported by CNN report
- Matthew in 2016 caused a storm surge of ~ 8 Feet, Dorian increased the storm surge limit to 18 feet at max height – double that of Matthew
- The surge came from the north, thankfully the ridge limited its destruction to the island and those who reside on the south side

What Exists



Queens Cove

High Rock



High Rock2