



Jacksonville Environmental Symposium

September 14, 2018



PRP Agenda

- Overview of the PRP Innovative Technology Program.
- Overview of the PRP Advanced Cleanup Program.
- Overview of the PRP Program site cleanup progress.



Innovative Technologies

Overview from inception (2015-2018)

- 36 Sites were reviewed for the ITECH program from 2015-2018
- 20 sites have been approved for ITECH funding from 2015-2018
- There are currently 10 active Innovative Technology (ITECH) site purchase orders.
- **\$3,815,004** has been encumbered for ITECH purchase orders.
 - Average cost per site purchase order: \$381,500
 - Duration of each purchase order is 3 years
- Ten pre-ITECH **site assessment** purchase orders were approved for a total encumbrance of **\$306,075**.
- Total Encumbrance: **$\$3,815,004 + \$306,075 = \$4,121,079$** for 2015-2018



Innovative Technologies

ITECH sites with active purchase orders

- Raceway 854 (FAC ID 378510368):
 - Installed angled wells to access under the building, completed recirculation event using high vacuum groundwater extraction and surfactant injection.
 - 8/24/18 Have not reached 50% milestone reductions.
- Tropical Plantation (FAC ID 438735520):
 - Applied Proprietary recirculation-chemical injection technology.
 - 3/21/18 achieved 75% reduction milestone.
- Hayes Grocery (FAC ID 379501509):
 - Injected PlumeStop into the aquifer in the former Large Diameter Auger excavation area beneath the flowable fill, results pending monitoring.
 - 7/20/18: Have not reached 50% reduction milestone.



Innovative Technologies

Raceway 854





Innovative Technologies

Raceway 854-Extraction System





Innovative Technologies

- Shell McClellan (FAC ID 628517046):
 - Applied chemical injection, ORC application, and PlumeStop.
 - 7/30/18: Milestone Report---achieved NADC milestone reductions.
- Shell Five Points (FAC ID 378510250):
 - Conducted bioremediation injection event using Etec's PetroBac Proprietary Custom Blend Nutrients (CBM) bundle.
 - 6/25/18: Milestone Report---achieved 100% milestone reductions..
- Circle K (FAC ID 378510233):
 - 6/28/18: approved Remedial Action Plan for Provect-OX remediation event, combined with in situ chemical oxidation & enhanced bioremediation chemical injection.
 - Remediation currently being scheduled.



Innovative Technologies

- Ezell Store (FAC ID 329202390):
 - Conducted continuous injection of water, through deep injection points, dispersed using low volume bio-sparging, and shallow injections of Biodyne's bioremediation product Environoc 101.
 - Results pending monitoring.
- Giant #361 (FAC ID 168506989):
 - Conducted bioremediation injection events using Etec's PetroBac Proprietary Custom Blend Nutrients (CBM) bundle combined with air sparging and soil vapor extraction.
 - Results pending monitoring.



Innovative Technologies

- Marathon-Nicks #333 (FAC ID 528944207)
 - Conducted Provect-OX remediation event, combined with in situ chemical oxidation & enhanced bioremediation chemical injection.
 - 8/28/18 have not reached 50% milestone reductions.
- S&S #323 (FAC ID 128503488)
 - Conducted bioremediation injection events using Etec's PetroBac Proprietary Custom Blend Nutrients (CBM) bundle.
 - 8/28/18 have not reached 50% milestone reduction.



Innovative Technologies

Marathon-Nick's #333





Innovative Technologies

Marathon-Nick's #333





Advanced Cleanup

241 Sites under Advanced Cleanup since 2013.

- 97 Individual AC Agreements.
 - \$ 20,000,000 in Total Cleanup Costs.
 - \$ 708,000 in Total Cost Savings to State (35.4%).
- 144 Sites in 10 Bundle Agreements.
 - \$ 43,589,817 in Total Cleanup Costs.
 - \$ 15,717,686 in Total Cost Savings to State (36.0%).



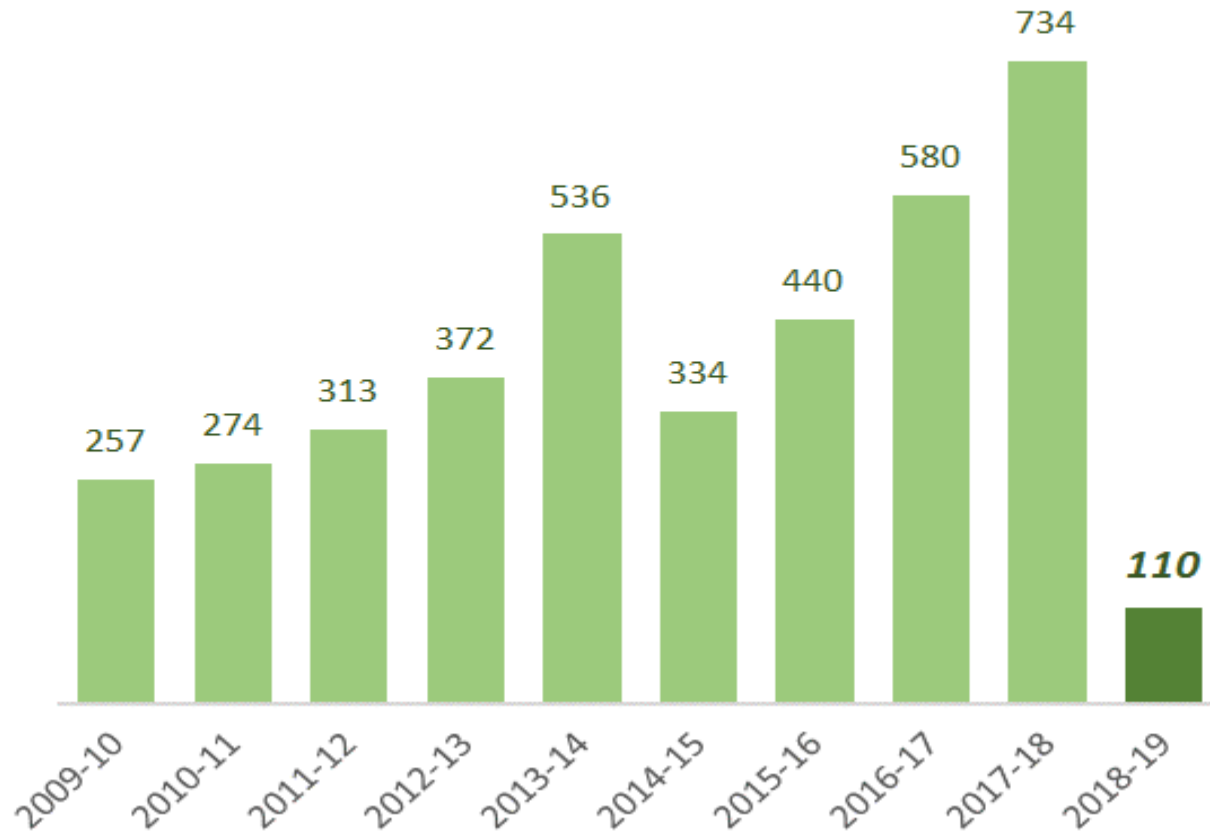
Advanced Cleanup / Redevelopment

- Nine applications received to date.
 - One deemed insufficient but have requested additional info for completion.
 - 2 bundles for Port Everglades in negotiation.
- Seven applications negotiated & contracts executed
 - Total encumbered to date = \$3,718,000.
 - Range = \$300,000 to \$880,750.
- One application in review.
 - Estimated cleanup costs of \$1,000,000.
 - Additional inquiries received via phone and email.
- Coordinated effort with Brownfields to stimulate economic development.
- Motivate property owners to come to DEP for closures out of normal priority funding order.



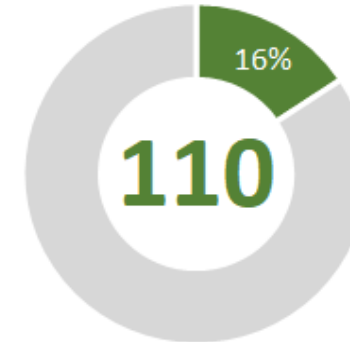
Assessment and Closure Update

Discharge Closures by Fiscal Year



FY 2018-19 Discharges Closed to Date

Total Closed to Date:

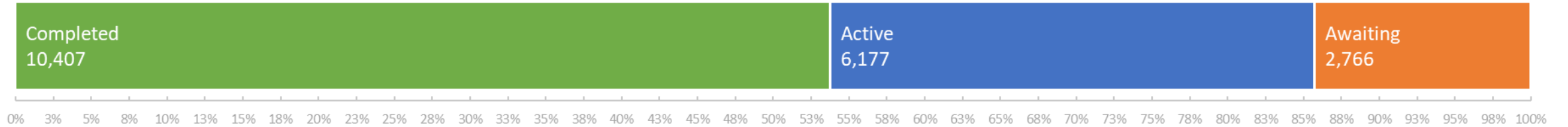


*of 700
projected closures*

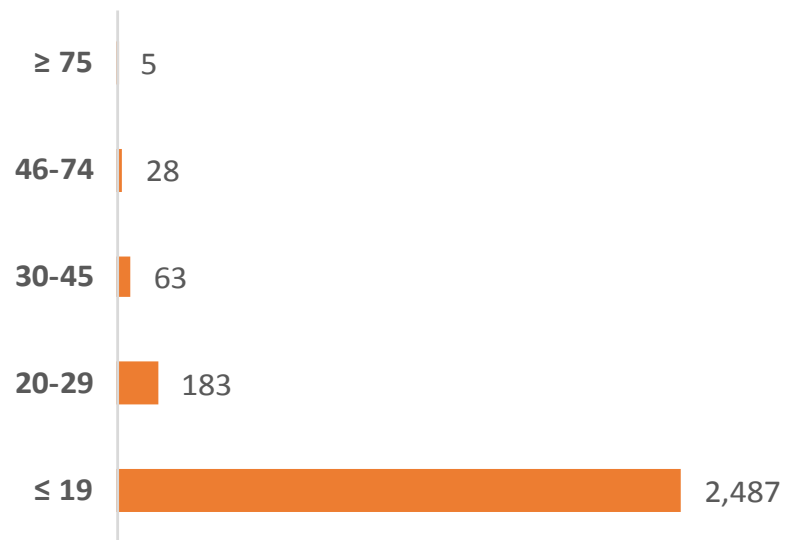
type	closures	% of total
LNFA	8	7%
NFA/SRSCO	99	90%
NFAC	3	3%
NREQ	0	0%



PRP Discharge Status

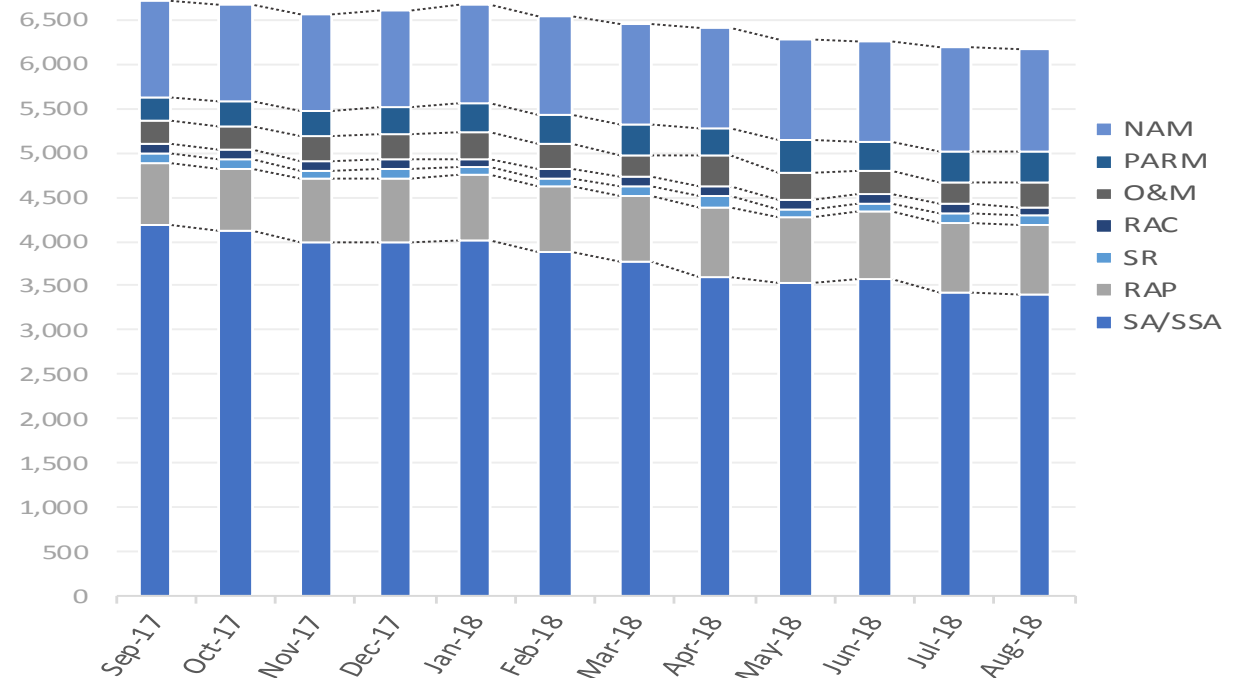


Current Inactive Discharge Score:



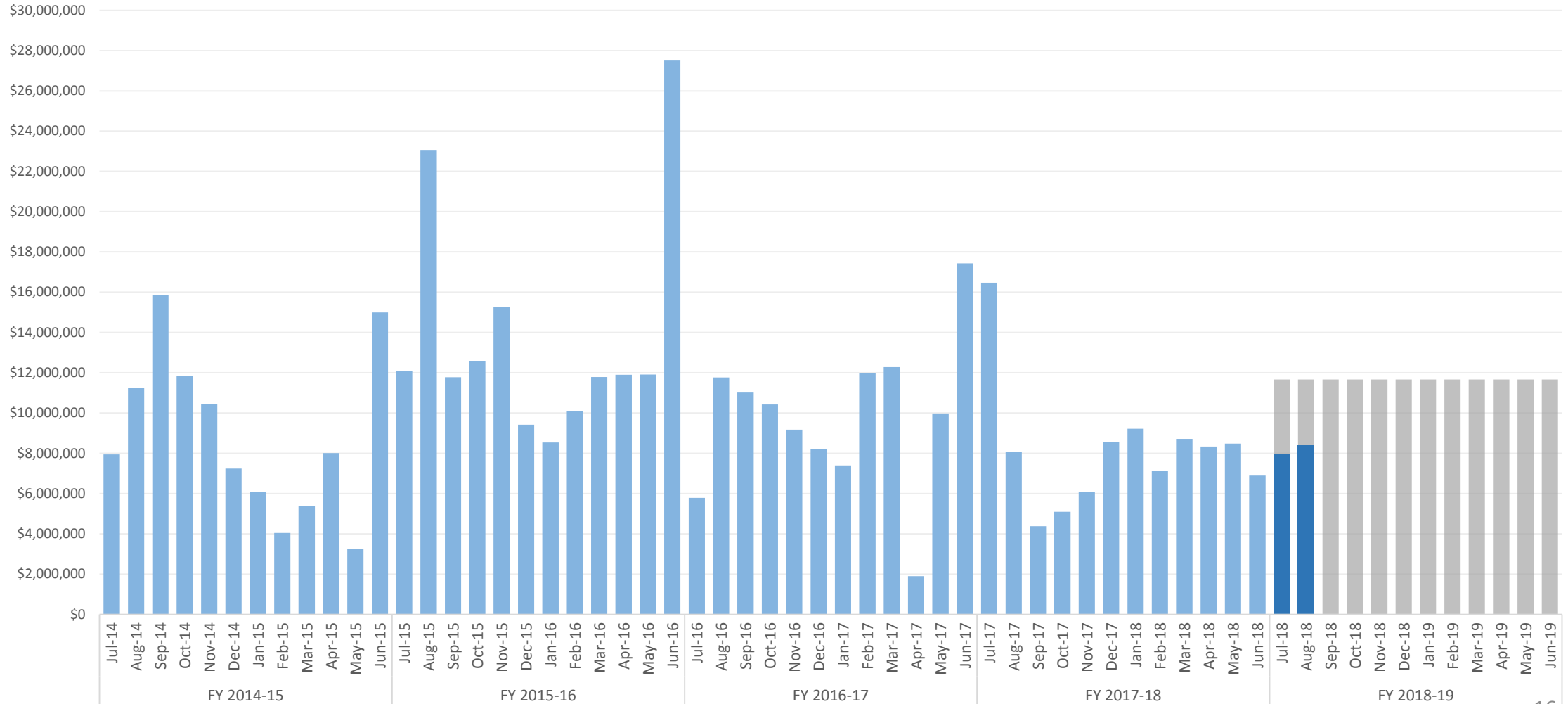
* The current Priority Score Funding Threshold is 20.

Monthly Snapshot of Active Discharge Sub-Phases





PRP Encumbrance Activity





PRP Discharge Status

FY 2018-19 Encumbrances by Month

Month	FY Projection	Encumbered	*Net Encumbered	Net Percentage
July 2018	\$ 11,667,750	\$ 9,244,371	\$ 7,961,274	68%
August 2018	\$ 11,667,750	\$ 10,471,706	\$ 8,410,410	72%
September 2018	\$ 11,667,750	-	-	0%
October 2018	\$ 11,667,750	-	-	0%
November 2018	\$ 11,667,750	-	-	0%
December 2018	\$ 11,667,750	-	-	0%
January 2019	\$ 11,667,750	-	-	0%
February 2019	\$ 11,667,750	-	-	0%
March 2019	\$ 11,667,750	-	-	0%
April 2019	\$ 11,667,750	-	-	0%
May 2019	\$ 11,667,750	-	-	0%
June 2019	\$ 11,667,248	-	-	0%
Grand Total	\$ 140,012,498	\$ 19,716,077	\$ 16,371,684	12%

FY 2018-19 Fiscal Activity by Phase

Phase	August 2018		FY to Date	
	Count	Amount	Count	Amount
Low Score Site Initiative	75	\$ 1,274,511	128	\$ 2,086,758
Site Assessment <i>(including LSA)</i>	66	\$ 2,590,994	135	\$ 5,246,053
Source Removal <i>(including FPR)</i>	6	\$ 1,479,703	10	\$ 2,907,080
Remedial Action Plan <i>(including Pilot)</i>	37	\$ 1,149,369	72	\$ 2,091,459
Remedial Action Construction	12	\$ 2,008,819	21	\$ 3,680,058
Operation & Maintenance	13	\$ 1,271,802	21	\$ 1,973,016
Post Active Remedial Monitoring	6	\$ 89,936	12	\$ 433,753
Natural Attenuation Monitoring	46	\$ 542,774	91	\$ 1,130,442
Well Abandonment/SRCO	8	\$ 63,796	19	\$ 167,459
Sub Total	269	\$ 10,471,706	509	\$ 19,716,077

