IAP Cover Sheet	Version Name: Period 10
Incident Name: 2nd 80's Fire	Period: Period 10 [04/03/2019 07:00 - 04/05/2019 07:00]

Approved By

Federal OSC:		04/02/2019 @ 5:43
State OSC:		04/02/2019 5:27 pm 5:19 Pm
Incident Commander:		4/2/19 5:17 Pm

Incident Action Plan

Notes

Period 10 IAP (48 hour Operational Period)

ICS 208 Site Safety Plans are located at each check in location.

2nd 80's Tank Farm

9963602

Table of Contents

Incident Name: 2nd 80's Fire	Period: Period 10 [04/03/19 07:00 - 04/05/19 07:00]

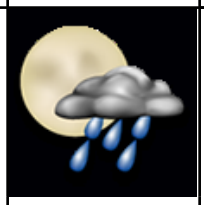
Report Name	*Page*
IAP Cover Sheet	1
Weather Report	3
ICS 202 - Incident Objectives	5
ICS 202b - Critical Information Requirements	6
ICS 204 - Assignment List	7
ICS 205 - Radio Communications	57
ICS 206 - Medical Plan	58
ICS 207 - Organization Chart	63

Present Conditions

Weather Conditions as of 04/03/2019 04:40

deer park station id: MID_UR113

Temperature:	49° Fahrenheit	***Feels Like:***	49° Fahrenheit
Wind Speed:	mph	***Dew Point:***	° Fahrenheit
Wind Direction (from):		***Pressure:***	psi
Visibility:	mile(s)	***UV Index:***	
Humidity (%):		***Sunrise:***	07:06
:	Mostly Cloudy	***Sunset:***	19:40
:	Mostly Cloudy		
Current Speed:		***Wave Height:***	feet
Current Direction (to):		***Wave Direction:***	
Water Temperature:	° Fahrenheit	***Swell Interval:***	feet

Forecast Date				
Wed 04/03/2019	72 F	**Mostly Cloudy with Isolated Showers** **Chance of Precipitation(%):** 12% **Wind:** 9 mph	66 F	**Cloudy with Chance of Light Showers** **Chance of Precipitation(%):** 48% **Wind:** 11 mph
Thu 04/04/2019	81 F	**Mostly Cloudy with Scattered Showers** **Chance of Precipitation(%):** 53% **Wind:** 9 mph	 67 F	**Partly Cloudy with Isolated Showers** **Chance of Precipitation(%):** 24% **Wind:** 5 mph
Fri 04/05/2019	80 F	**Partly Cloudy with Isolated Showers** **Chance of Precipitation(%):** 21% **Wind:** 5 mph	68 F	**Partly Cloudy with Scattered Showers** **Chance of Precipitation(%):** 28% **Wind:** 7 mph

Tides

	Tide	***Height***	***UOM***	***Time***	***Tide Station Location***
Wed 04/03/2019	Low	0.904	feet	03:19	Lynchburg Landing, San Jacinto River, Tx Us
	High	1.192	feet	08:35	Lynchburg Landing, San Jacinto River, Tx Us
	Low	0.515	feet	15:09	Lynchburg Landing, San Jacinto River, Tx Us
	High	1.338	feet	21:45	Lynchburg Landing, San Jacinto River, Tx Us
Thu 04/04/2019	Low	0.771	feet	03:38	Lynchburg Landing, San Jacinto River, Tx Us
	High	1.272	feet	09:28	Lynchburg Landing, San Jacinto River, Tx Us

Thu 04/04/2019	Low	0.676	feet	15:48	Lynchburg Landing, San Jacinto River, Tx Us
	High	1.277	feet	21:45	Lynchburg Landing, San Jacinto River, Tx Us
Fri 04/05/2019	Low	0.628	feet	04:03	Lynchburg Landing, San Jacinto River, Tx Us
	High	1.351	feet	10:22	Lynchburg Landing, San Jacinto River, Tx Us
	Low	0.851	feet	16:33	Lynchburg Landing, San Jacinto River, Tx Us
	High	1.238	feet	21:47	Lynchburg Landing, San Jacinto River, Tx Us

Objective(s)
Ensure the Safety of the Public and Response Personnel.
Obtain & Maintain Traffic Control on Independence Parkway
Maximize the Protection of Public Health and Welfare.
Maximize Protection of Environmentally and Socially Sensitive Areas.
Monitor, Recover, and Rehabilitate Impacted Wildlife
Maintain Fire Suppression Activities to Prevent Re-ignition and Suppress Vapor. Continue Assessing Risk in Tank Area for Site Stabilization.
Support and Facilitate Evidence Preservation in the Tank Farm Area
Continue Execution of Water and Product Removal Plan.
Minimize Further Release of Product from the Facility.
Contain and Recover Spilled Material.
Prevent Further Impacts to Maritime Transportation.
Ensure Port Recovery and Restoration.
Keep the Public, Stakeholders and the Media Informed of Response and Recovery Activities and any applicable Health Risks.

Operational Period Command Emphasis (Safety Message, Priorities, Key Decisions/Directions)

Safety is the number one priority. All responders have "Stop Work Authority." Report any unsafe acts or situation to your supervisor immediately.

Reporting requirements shall be communicated in accordance with the established incident reporting chains.

- IMMEDIATE REPORTING THRESHOLDS (notify UC w/in 15 minutes of occurance [interrupt meetings, wake people up, etc.]) -

Injury or Death

- OSHA/Greater than 1st Aid through Safety Officer
- Hospital Transports

Air monitoring levels exceeding action levels (1ppm benzene)

- Email: Air2@iterm.com
- Phone: 832-493-8041

Any order of Shelter in Place by local municipalities

Public health impacts

Any breach in security

Any unaccounted for, or unauthorized personnel in the field

Any new incidents (fire, oil spill, etc.)

Loss of major tactical resources

Change in current or forecasted weather, limiting response operations

Confirmed wildlife impacts

Loss or breach of containment

Shoreline Oiling or Impacts

Impacted sensitive areas beyond protection

Critical stakeholder issues and concerns

Maritime transportation impacts

Public infrastructure closures (parks, boat ramps, railroads, roads, etc.)

Media interview requests

Special requests from agencies

Unplanned VIP visits

Adverse external influences, including social media

Political activities or actions that may negatively impact the effectiveness of the response

Critical Information Reporting Criteria

Operations Personnel

Position	***Name***	***Affiliation***	***Contact Number(s)***	***Work Shift***
Operations Section Chief (Land)	Surguy, Robby	ITC	832-780-6712	Day Shift
Operations Section Chief	Barbour, Michael			Night Shift
Deputy Operations Section Chief (Water)	Brescia, Nicolas	Environmental Protection Agency	214-789-8383	Day Shift
Deputy Operations Section Chief (Land)	Burditt, John	ITC	832-240-6440	Day Shift
Deputy Operations Section Chief (Land)	Kunh, Karl	ITC	713-208-5583	Day Shift
Operations Section Chief (Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (Water)	Riedel, Jim	NRC	206-500-6480	Day Shift
Protection & Recovery Branch	Lyons, Eric	AMPOL - American Pollution Control	337-519-8070	Day Shift
Protection & Recovery Branch	Swanney, Kyle	USCG	(832) 256-7210	Night Shift
Recovery & Protection Branch Director	Nichols, Freddie	OMI	501-410-2212	Day Shift
Recovery & Protection Branch Director	Brescia, Nicolas	Environmental Protection Agency	214-789-8383	Day Shift
Division A Supervisor	Ward, Taylor	USCG	251-300-4189	Day Shift
Division A Supervisor	Goins, Derek	AMPOL - American Pollution Control	504 982 5046	Day Shift
Division A Supervisor	Smith, Charles	USCG	856-513-5276	Day Shift

Resources Required

Area Of Operation	***Resource Kind***	***Description***	***Quantity***	***Size***
Division A	Boom	Boom	5300	18 inch (es)
Division A	Marco Skimmer	Marco Skimmer	4	
Division A	Vacuum Truck 130 bbl	Vacuum Truck 130 bbl	6	
Division A	Support Vessel	Support Vessel	8	
Division A	Spill Tech	Spill Tech	94	
Division A	Air Monitoring Tech	Air Monitoring Tech	6	
Division A	Jon Boat	Jon Boat	2	

Assignments

As directed, conduct booming and recovery operations in Division A.

Maintain boom at the following locations
-Shell (diversion boom on south side of Buffalo Bayou)
-Enterprise Dock. (diversion boom on north side of Buffalo Bayou and containment inside slip) in front of industrial water intake for Oil Tanking of Texas Inc - Deer Park.
-Stolthaven Dock - Grid X-7, X-8 - Containment Boom inside slip
-Stolthaven Dock - Grid X-9 - Containment Boom inside slip
-Texas Terminals Dock - Containment Boom inside slip

Based on changing weather conditions, be prepared to adjust containment & recovery tactics as necessary.

Recover pockets of oil as directed with small skimming vessels and vac trucks.

(4) Marcos, (6) 130 bbl Vacuum Trucks will be utilized to recover spilled material. Recovered material will be offloaded into the Texas Responder. Use of the 30,000 bbls storage barge will be shared between Divisions A & B as directed.
During daytime operations, shallow water barges will pump off into the Texas Responder.
The Texas Responder will pump off into the 30,000 bbl support barge located at the De ZaValla Fleet as needed.

-Patrick Bayou-
Maintain boom at mouth of Patrick Bayou, recover product inside bayou near Shell Deer Park outfall.
Grid AC-12, X-13 and X-14, deploy sorbent boom and work pockets of product. Assess booming strategy from morning overflight and weather conditions.

Material collected by vacuum trucks and skimmers will be managed in accordance with a Waste Management Plan.

Each team of vessels are required to have at least one (1) air monitoring technician on board at all times.

Special Instructions

Provide amount of material recovered by division to the Water Operations Branch Director by 05:30, 10:30 & 16:30 daily.

Water Operations Branch Director:
Reid McLelland (281) 838-7567

ALTERNATE PHONE NUMBER:
Situation Unit - (801) 556-3369

Communications

Name / Function	*Contact Details*
Marine - USCG OPS / Tactical	Marine - USCG OPS 81A
Marine - Hailing and Emergency / All	Marine - Hailing and Emergency 16
Marine - OMI-On-water OPS / Tactical	Marine - OMI-On-water OPS 67
Operations/Safety/Incident Command / Operations	Operations/Safety/Incident Command 15

Special Equipment / Supplies Needed for Assignment

Utilize Viscous Sweep & Sorbent Boom as needed.

Special Environmental Considerations

Report any oiled wildlife, wildlife in foam to the Wildlife Hotline 832-368-5379. Please take photo, and document location - DO NOT APPROACH.

Report any deceased fish or wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location. DO NOT DISPOSE.

Dispose contaminated PPE, debris, and sorbent materials in approved contaminated waste containers. DO NOT DISPOSE OF CONTAMINATED MATERIALS IN GENERAL TRASH.

Special Site-Specific Safety Considerations

Watch pinch points. Use proper lifting techniques and team lift when appropriate. Maintain awareness of walking surfaces to prevent slips trips and falls. Don PFD's when working within 3 ft of the waters edge, open water or onboard a vessel.

Wear appropriate PPE - no leather gloves - communicate any unsafe situations to supervisor. Utilize stop work authority if necessary. Nobody gets hurt.

Ensure all personnel are equipped with Benzene detection. If Benzene is detected at levels higher than 0.5 ppm, evacuate the area, report to supervisor and Mike Gaudet (281-787-8256) or Mike Taylor (281) 667-1771 on Night Shift. If available don Full-Face respirator with organic cartridge prior reentry. If Benzene level reaches 25ppm or above, evacuate the area and notify Mike Gaudet. Do not reenter without donning a supplied air respirator.

All equipment and personnel must be decontaminated prior to leaving the hot zone.

Action Levels for Benzene:

Less than 0.5ppm: No respiratory protection needed
Greater than 0.5 ppm - Don full face APR: Must change APR cartridges to prevent breakthrough every 4 hours.
Greater than 25.0 ppm - Supplied Air

Report any LEL detection (delineate area).

Any monitoring data that exceeds action levels will be reported to the Monitoring Supervisor. Email: Air2@iterm.com
or
Phone: 832-493-8041

20190402 Division A Grid Map

Operations Personnel

Position	***Name***	***Affiliation***	***Contact Number(s)***	***Work Shift***
Operations Section Chief (Land)	Surguy, Robby	ITC	832-780-6712	Day Shift
Operations Section Chief	Barbour, Michael			Night Shift
Deputy Operations Section Chief (Water)	Brescia, Nicolas	Environmental Protection Agency	214-789-8383	Day Shift
Deputy Operations Section Chief (Land)	Burditt, John	ITC	832-240-6440	Day Shift
Deputy Operations Section Chief (Land)	Kunh, Karl	ITC	713-208-5583	Day Shift
Operations Section Chief (Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (Water)	Riedel, Jim	NRC	206-500-6480	Day Shift
Protection & Recovery Branch	Lyons, Eric	AMPOL - American Pollution Control	337-519-8070	Day Shift
Protection & Recovery Branch	Swanney, Kyle	USCG	(832) 256-7210	Night Shift
Recovery & Protection Branch Director	Nichols, Freddie	OMI	501-410-2212	Day Shift
Recovery & Protection Branch Director	Brescia, Nicolas	Environmental Protection Agency	214-789-8383	Day Shift
Division B Supervisor	Landry, Ashton	AMPOL - American Pollution Control	337-339-1777	Day Shift
Division B Supervisor	Weigand, Noah	USCG	904-635-4030	Day Shift
Division B Supervisor	Taylor, Mike	ITC	281-667-1771	

Resources Required

Area Of Operation	***Resource Kind***	***Description***	***Quantity***	***Size***
Division B	Boom	Boom	40100	18 inch (es)
Division B	Harbor Boom	Harbor Boom	4500	42 inch (es)
Division B	Offshore Boom	Offshore Boom	3740	67 inch (es)
Division B	Marco Skimmer	Marco Skimmer	6	
Division B	Foilex Skimmer	Foilex Skimmer	9	
Division B	Weir Skimmer	Weir Skimmer	4	
Division B	Drum Skimmer	Queensburo Skimmer	2	
Division B	Vacuum Truck 130 bbl	Vacuum Truck 130 bbl	10	
Division B	Vacuum Truck 70 bbl	Vacuum Truck 70 bbl	20	
Division B	Shallow Water Barge (SWB)	Shallow Water Barge (SWB)	6	
Division B	Storage Barge (Inland)	Storage Barge (Inland)	1	
Division B	OSRV	Texas Responder	1	
Division B	Support Vessel	Support Vessel	11	
Division B	Spill Tech	Spill Tech	259	
Division B	Air Monitoring Tech	Air Monitoring Tech	61	

Resources Required

Area Of Operation	Resource Kind	Description	Quantity	Size
Division B	Jon Boat	Jon Boat	2	

Assignments

In coordination with air operations, crews to conduct on water recovery operations using boom, vessels, skimmers and barges along the Ship Channel as necessary.
Operations will coordinate large capacity skimming vessels as needed.
24/Hr skimming operations will be conducted by large capacity skimming vessels.

South Bank of Buffalo Bayou: (West to East)
-Patrick Bayou-
Maintain boom at mouth of Patrick Bayou, recover product inside bayou near Shell Deer Park outfall.

-Drainage ditch east of Patrick Bayou-
Maintain boom at mouth of ditch.

-Shoreline from Patrick's Bayou to Tucker's Bayou-
Maintain boom and recover product, modify boom to contain product trapped on outside of boom and reduce containment areas to condense product as needed.

-Mouth of Tucker's Bayou-(from mouth to Dow Bridge)-
NRC will recover product utilizing (9) drum skimmers and (20) vacuum trucks at ITC Dock. Conduct on water recovery utilizing (4) Marco Skimmers, (1) GT185 Skimmer, (1) Queensburo Skimmer, (2) Shallow Water Barge Systems, and (6) Support Boats.
Continue to utilize mobile V boom with marco skimmers to continue to recover oil.
These resources will concentrate on the mouth of Tucker Bayou weather permitting. Coordinate this portion of operations with Division E.

-ITC Slip-
Working with Decon Group and VTS, coordinate boom removal and tending around ITC docks to facilitate vessel traffic into VOPAC

Coordinate flushing operations with Division E as needed.
Set up frac tank farm with (5) frac tanks and pump to tankage from facility operations.

-Dock 4 - Dock 8- Grid U-18 and U-19
Maintain boom, utilize MSRC storage barge to offload storage tanks, recover product on water.

-Battle Ship Texas SP-
Maintain boom and recover product

-Shoreline East of Battle Ship Texas SP to ferry-
Maintain boom along shoreline.

North Bank of Buffalo Bayou: (West to East) Grid V-14, V-15 and U-16
-South Atlantic Services-
Maintain boom along north bank of Buffalo Bayou around docks. Assess vessels at dock for oil contamination on haul and in between vessels and dock.

-San Jacinto Port- Grid T-14 and T-13
Maintain boom and shrink containment areas to condense product for more efficient recovery and utilize assigned (7) Marcos, (6) Shallow Water Barges (with (2) GT185 Skimmers), (2) John Boats and (10) Vacuum Trucks 130 bbls.
Maintain and tend boom accordingly to facilitate traffic in Jacinto Port as directed.

-Houston Fuel Oils (HFO)/Oils States Slip - Grid U-13 North side: maintain boom and recover free floating product.

Small capacity skimming vessels to utilize support vessels equipped with totes to offload product. Recovered material will be offloaded into the Texas Responder. Use of the storage barge will be shared between Divisions A & B as directed. During daytime operations, shallow water barges will pump off into the Texas Responder. The Texas Responder will pump off into the

support barge located at the De ZaValla Fleet as needed.

Material collected by vacuum trucks and skimmers will be managed in accordance with a Waste Management Plan.

All teams of vessels are required to have at least one (1) air monitoring technician on board at all times.

Special Instructions

Provide amount of material recovered by division to the Water Operations Branch Director by 05:30, 10:30 & 16:30 daily.

Water Operations Branch Director:
Reid McLelland (281) 838-7567

ALTERNATE PHONE NUMBER:
Situation Unit - (801) 556-3369

Communications

Name / Function	***Contact Details***
Marine - USCG OPS / Tactical	Marine - USCG OPS 81A
Marine - Hailing and Emergency / All	Marine - Hailing and Emergency 16
Marine - OMI-On-water OPS / Tactical	Marine - OMI-On-water OPS 67
Operations/Safety/Incident Command / Operations	Operations/Safety/Incident Command 15

Special Equipment / Supplies Needed for Assignment

Utilize Viscous Sweep & Sorbent Boom as needed.

Special Environmental Considerations

Report any oiled wildlife, wildlife in foam to the Wildlife Hotline 832-368-5379. Please take photo, and document location - DO NOT APPROACH.

Report any deceased fish or wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location. DO NOT DISPOSE.

Dispose contaminated PPE, debris, and sorbent materials in approved contaminated waste containers. DO NOT DISPOSE OF CONTAMINATED MATERIALS IN GENERAL TRASH.

Special Site-Specific Safety Considerations

Watch pinch points. Use proper lifting techniques and team lift when appropriate. Maintain awareness of walking surfaces to prevent slips trips and falls. Don PFD's when working within 3 ft of the waters edge, open water or onboard a vessel.

Wear appropriate PPE - no leather gloves - communicate any unsafe situations to supervisor. Utilize stop work authority if necessary. Nobody gets hurt.

Ensure all personnel are equipped with Benzene detection. If Benzene is detected at levels higher than 0.5 ppm, evacuate the area, report to supervisor and Mike Gaudet (281-787-8256) or Mike Taylor (281) 667-1771 on Night Shift. If available don Full-Face respirator with organic cartridge prior reentry. If Benzene level reaches 25ppm or above, evacuate the area and notify Mike Gaudet. Do not reenter without donning a supplied air respirator.

All equipment and personnel must be decontaminated prior to leaving the hot zone.

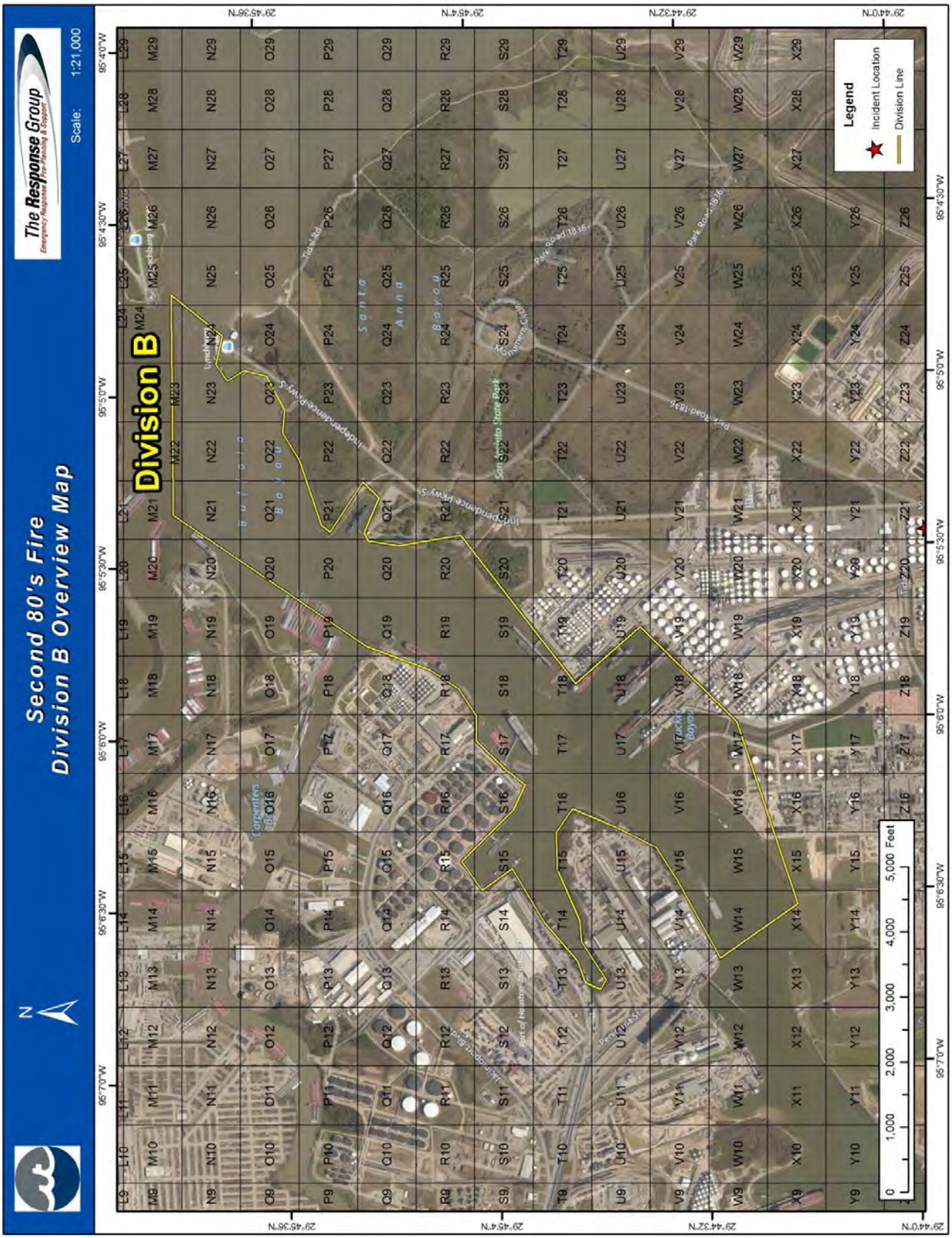
Action Levels for Benzene:

Less than 0.5ppm: No respiratory protection needed
Greater than 0.5 ppm - Don full face APR: Must change APR cartridges to prevent breakthrough every 4 hours.
Greater than 25.0 ppm - Supplied Air

Report any LEL detection (delineate area).

Any monitoring data that exceeds action levels will be reported to the Monitoring Supervisor. Email: Air2@iterm.com
or
Phone: 832-493-8041

20190402 Division B Grid Map



Operations Personnel

Position	***Name***	***Affiliation***	***Contact Number(s)***	***Work Shift***
Operations Section Chief (Land)	Surguy, Robby	ITC	832-780-6712	Day Shift
Operations Section Chief	Barbour, Michael			Night Shift
Deputy Operations Section Chief (Water)	Brescia, Nicolas	Environmental Protection Agency	214-789-8383	Day Shift
Deputy Operations Section Chief (Land)	Burditt, John	ITC	832-240-6440	Day Shift
Deputy Operations Section Chief (Land)	Kunh, Karl	ITC	713-208-5583	Day Shift
Operations Section Chief (Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (Water)	Riedel, Jim	NRC	206-500-6480	Day Shift
Protection & Recovery Branch	Lyons, Eric	AMPOL - American Pollution Control	337-519-8070	Day Shift
Protection & Recovery Branch	Swanney, Kyle	USCG	(832) 256-7210	Night Shift
Recovery & Protection Branch Director	Nichols, Freddie	OMI	501-410-2212	Day Shift
Recovery & Protection Branch Director	Brescia, Nicolas	Environmental Protection Agency	214-789-8383	Day Shift
Division C Supervisor	Donnelly, Rowdy	AMPOL - American Pollution Control	504-259-2655	Day Shift
Division C Supervisor	Cochrane, Walter	AMPOL - American Pollution Control	504-450-6601	Day Shift
Division C Supervisor	Bradway, Richard	USCG	207-475-7786	

Resources Required

Area Of Operation	***Resource Kind***	***Description***	***Quantity***	***Size***
Division C	Boom	Boom	32600	18 inch (es)
Division C	Marco Skimmer	Marco Skimmer	4	
Division C	Foilex Skimmer	Foilex Skimmer	2	
Division C	Vacuum Truck 70 bbl	Vacuum Truck 70 bbl	10	
Division C	Shallow Water Barge (SWB)	Shallow Water Barge (SWB)	2	
Division C	Storage Barge (Inland)	Storage Barge (Inland)	1	
Division C	Support Vessel	Support Vessel	7	
Division C	Spill Tech	Spill Tech	141	
Division C	Air Monitoring Tech	Air Monitoring Tech	26	
Division C	Aircraft: UAV	Aircraft: UAV	1	

Assignments

From West to East:

-Carpenter's Bayou- Grid P-18, P-19, Q-19
Maintain boom at the mouth of Carpenter's Bayou and at Bridge for De Zavalla Rd.
Recover product with sorbent materials inside the bayou as ditrected, specificly in the vicinity of Grid N-12, N-13, N-14, M-13, M-14 utilizing assigned resources;(5) Support Boats. Utilize 30,000 bbl tank barge for recovery storage capacity.

Coordinate with Decon Group at Kirby facility on north bank of the mouth of the bayou.

-Mouth of Old River-
Maintain boom at mouth of Old River at Cement Plant on south bank and on north bank across the channel from ferry landing on Lost Lake Island.
Maintain boom around Kirby Fleet and KSOLV Facility inside Old River south bank.
Boom and Recover product from KSOLV down to Kirby Old River facility as directed.
Coordinate with Decon Group at mouth of Old River

-Hog Island-
UAV flight around the island and surrounding area.

-River Terrace Park - maintain boom around dock area and section in Fresh Water Bayou at Market St. bridge.

Small capacity skimming vessels to utilize support vessels equipped with totes to offload product. Recovered material will be offloaded into storage barge. Use of this storage barge will be shared between Divisions C & D as directed.

Small capacity skimming vessels to utilize (10) vacuum trucks staged at Independence Parkway/ West Landing of Lynchburg Ferry and offload facility to offload recovered product.

Material collected by vacuum trucks and skimmers will be managed in accordance with a Waste Management Plan.

All teams of vessels are required to have at least one (1) air monitoring technician on board at all times.

Special Instructions

Provide amount of material recovered by division to the Water Operations Branch Director by 05:30, 10:30 & 16:30 daily.

Water Operations Branch Director:
Reid McLelland (281) 838-7567

ALTERNATE PHONE NUMBER:
Situation Unit - (801) 556-3369

Communications

Name / Function	***Contact Details***
Marine - USCG OPS / Tactical	Marine - USCG OPS 81A
Marine - Hailing and Emergency / All	Marine - Hailing and Emergency 16
Marine - OMI-On-water OPS / Tactical	Marine - OMI-On-water OPS 67
Operations/Safety/Incident Command / Operations	Operations/Safety/Incident Command 15

Special Equipment / Supplies Needed for Assignment

Utilize Viscous Sweep & Sorbent Boom as needed.

Special Environmental Considerations

Report any oiled wildlife, wildlife in foam to the Wildlife Hotline 832-368-5379. Please take photo, and document location - DO NOT APPROACH.

Report any deceased fish or wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location. DO NOT DISPOSE.

Dispose contaminated PPE, debris, and sorbent materials in approved contaminated waste containers. DO NOT DISPOSE OF CONTAMINATED MATERIALS IN GENERAL TRASH.

Special Site-Specific Safety Considerations

Watch pinch points. Use proper lifting techniques and team lift when appropriate. Maintain awareness of walking surfaces to prevent slips trips and falls. Don PFD's when working within 3 ft of the waters edge, open water or onboard a vessel.

Wear appropriate PPE - no leather gloves - communicate any unsafe situations to supervisor. Utilize stop work authority if necessary. Nobody gets hurt.

Ensure all personnel are equipped with Benzene detection. If Benzene is detected at levels higher than 0.5 ppm, evacuate the area, report to supervisor and Mike Gaudet (281-787-8256) or Mike Taylor (281) 667-1771 on Night Shift. If available don Full-Face respirator with organic cartridge prior reentry. If Benzene level reaches 25ppm or above, evacuate the area and notify Mike Gaudet. Do not reenter without donning a supplied air respirator.

All equipment and personnel must be decontaminated prior to leaving the hot zone.

Action Levels for Benzene:

Less than 0.5ppm: No respiratory protection needed
Greater than 0.5 ppm - Don full face APR: Must change APR cartridges to prevent breakthrough every 4 hours.
Greater than 25.0 ppm - Supplied Air

Report any LEL detection (delineate area).

Any monitoring data that exceeds action levels will be reported to the Monitoring Supervisor. Email: Air2@iterm.com
or
Phone: 832-493-8041

Second 80's Fire
Division C Overview Map
The Response Group
Emergency Response | Pre-Planning & Support
Scale: 1:30,000
N
Division C
HOUSTON
Legend
Division Line
0 1,000 2,000 3,000 4,000 5,000 Feet
95°7'0"W
95°6'0"W
95°5'0"W
95°4'0"W
95°3'0"W
29°47'0"N
29°46'0"N
29°45'0"N

© TRG

Operations Personnel

Position	***Name***	***Affiliation***	***Contact Number(s)***	***Work Shift***
Operations Section Chief (Land)	Surguy, Robby	ITC	832-780-6712	Day Shift
Operations Section Chief	Barbour, Michael			Night Shift
Deputy Operations Section Chief (Water)	Brescia, Nicolas	Environmental Protection Agency	214-789-8383	Day Shift
Deputy Operations Section Chief (Land)	Burditt, John	ITC	832-240-6440	Day Shift
Deputy Operations Section Chief (Land)	Kunh, Karl	ITC	713-208-5583	Day Shift
Operations Section Chief (Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (Water)	Riedel, Jim	NRC	206-500-6480	Day Shift
Protection & Recovery Branch	Lyons, Eric	AMPOL - American Pollution Control	337-519-8070	Day Shift
Protection & Recovery Branch	Swanney, Kyle	USCG	(832) 256-7210	Night Shift
Recovery & Protection Branch Director	Nichols, Freddie	OMI	501-410-2212	Day Shift
Recovery & Protection Branch Director	Brescia, Nicolas	Environmental Protection Agency	214-789-8383	Day Shift
Division D Supervisor	Bourque, Delven	AMPOL - American Pollution Control	337-519-6219	Day Shift
Division D Supervisor	Ceccarini, Alexander	USCG	858-943-1189	Day Shift

Resources Required

Area Of Operation	***Resource Kind***	***Description***	***Quantity***	***Size***
Division D	Boom	Boom	13400	18 inch (es)
Division D	Marco Skimmer	Marco Skimmer	2	
Division D	Support Vessel	Support Vessel	2	
Division D	Barge: Inland	Clean Channel Barge	1	
Division D	Spill Tech	Spill Tech	60	
Division D	Air Monitoring Tech	Air Monitoring Tech	9	

Assignments

From North to South on west bank of San Jacinto River:

-Lynchburg Ferry/Monument Inn to Bostco Facility/Peggy Lake.-
Maintain boom on west bank of San Jacinto River of the San Jacinto Monument
Maintain boom at mouth of Santa Anna Bayou, and inside bayou at cement culvert near NW corner of Peggy Lake boundary (Lat/Long: 29 44' 18.5", -95 43' 9.7")

-Bostco Facility-
Maintain boom and reduce containment area to condense product, allow any free floating product outside of containment to be let inside and reset boom.

Conduct recovery operations utilizing (2) Marco Skimmers, (1) Clean Channel Barge, and (2) Support Boats. These resources will concentrate in Peggy Lake, weather permitting.

From North to South on east bank of San Jacinto River:
-Lynchburg Ferry to Alexander Island-
Maintain boom on East bank of River from North Lynchburg Ferry Landing to Island across from Baytown Nature Center Park (protecting Burnett Bay - St. Mary's Beach, Spring Bayou, Fresh Water Bayou and Baytown Nature Center Marsh),
Maintain boom from Island to North Goat Island (protecting Crystal Bay Marsh and Baytown Nature Center Marsh),
Maintain boom from North Goat Island to South Goat Island (protecting Scott Bay)
Maintain boom around South Goat Island
Evaluate feasibility of booming Alexander Island on north and west sides. (Consider vessel traffic and rip rap on north side)

Small capacity skimming vessels to utilize support vessels equipped with totes to offload product. Recovered material will be offloaded into storage barge. Use of this storage barge will be shared between Divisions C & D as directed.

Material collected will be managed consistent with the approved Waste Management Plan.

All teams of vessels are required to have at least one (1) air monitoring technician on board at all times.

Special Instructions

Provide amount of material recovered by division to the Water Operations Branch Director by 05:30, 10:30 & 16:30 daily.

Water Operations Branch Director:
Reid McLelland (281) 838-7567

ALTERNATE PHONE NUMBER:
Situation Unit - (801) 556-3369

Communications

Name / Function	***Contact Details***
Marine - USCG OPS / Tactical	Marine - USCG OPS 81A
Marine - Hailing and Emergency / All	Marine - Hailing and Emergency 16
Marine - OMI-On-water OPS / Tactical	Marine - OMI-On-water OPS 67
Operations/Safety/Incident Command / Operations	Operations/Safety/Incident Command 15

Special Equipment / Supplies Needed for Assignment

Utilize Viscous Sweep & Sorbent Boom as needed.

Special Environmental Considerations

Report any oiled wildlife, wildlife in foam to the Wildlife Hotline 832-368-5379. Please take photo, and document location - DO NOT APPROACH.

Report any deceased fish or wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location. DO NOT DISPOSE.

Dispose contaminated PPE, debris, and sorbent materials in approved contaminated waste containers. DO NOT DISPOSE OF CONTAMINATED MATERIALS IN GENERAL TRASH.

Special Site-Specific Safety Considerations

Watch pinch points. Use proper lifting techniques and team lift when appropriate. Maintain awareness of walking surfaces to prevent slips trips and falls. Don PFD's when working within 3 ft of the waters edge, open water or onboard a vessel.

Wear appropriate PPE - no leather gloves - communicate any unsafe situations to supervisor. Utilize stop work authority if necessary. Nobody gets hurt.

Ensure all personnel are equipped with Benzene detection. If Benzene is detected at levels higher than 0.5 ppm, evacuate the area, report to supervisor and Mike Gaudet (281-787-8256) or Mike Taylor (281) 667-1771 on Night Shift. If available don Full-Face respirator with organic cartridge prior reentry. If Benzene level reaches 25ppm or above, evacuate the area and notify Mike Gaudet. Do not reenter without donning a supplied air respirator.

All equipment and personnel must be decontaminated prior to leaving the hot zone.

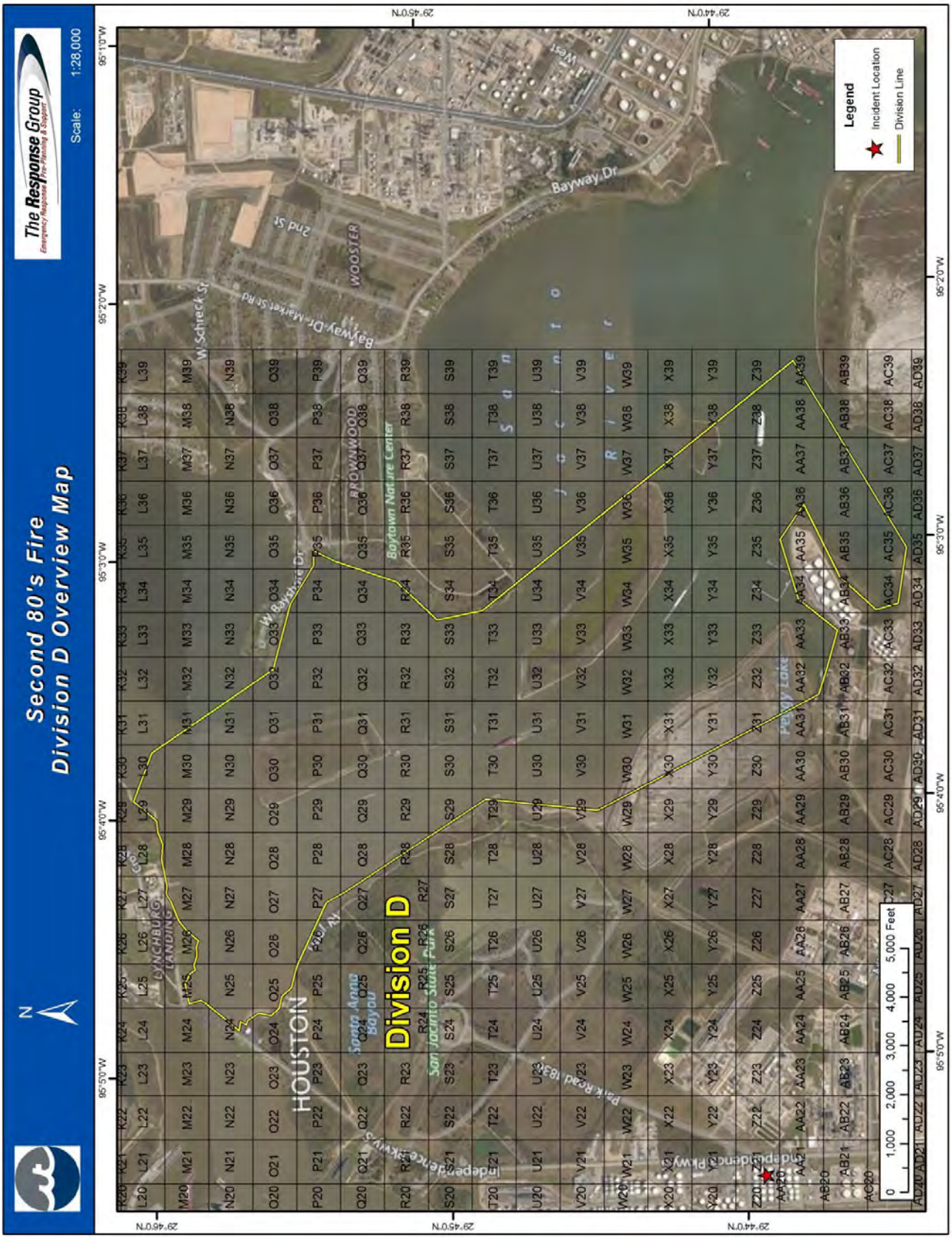
Action Levels for Benzene:

Less than 0.5ppm: No respiratory protection needed
Greater than 0.5 ppm - Don full face APR: Must change APR cartridges to prevent breakthrough every 4 hours.
Greater than 25.0 ppm - Supplied Air;

Report any LEL detection (delineate area).

Any monitoring data that exceeds action levels will be reported to the Monitoring Supervisor. Email: Air2@iterm.com
or
Phone: 832-493-8041

20190402 Division D Grid Map



Operations Personnel

Position	*Name*	*Affiliation*	*Contact Number(s)*	*Work Shift*
Operations Section Chief (Land)	Surguy, Robby	ITC	832-780-6712	Day Shift
Operations Section Chief	Barbour, Michael			Night Shift
Deputy Operations Section Chief (Water)	Brescia, Nicolas	Environmental Protection Agency	214-789-8383	Day Shift
Deputy Operations Section Chief (Land)	Burditt, John	ITC	832-240-6440	Day Shift
Deputy Operations Section Chief (Land)	Kunh, Karl	ITC	713-208-5583	Day Shift
Operations Section Chief (Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (Water)	Riedel, Jim	NRC	206-500-6480	Day Shift
Protection & Recovery Branch	Lyons, Eric	AMPOL - American Pollution Control	337-519-8070	Day Shift
Protection & Recovery Branch	Swanney, Kyle	USCG	(832) 256-7210	Night Shift
Recovery & Protection Branch Director	Nichols, Freddie	OMI	501-410-2212	Day Shift
Recovery & Protection Branch Director	Brescia, Nicolas	Environmental Protection Agency	214-789-8383	Day Shift
Division E Supervisor	Jackson, Renyiell	AMPOL - American Pollution Control	985-360-2804	Day Shift
Division E Supervisor	Fisher, Bray	EPA Region 6 Texas	469-510-8825	Day Shift
Division E Supervisor	Taylor, Russell	ITC	281-813-2748	Night Shift

Resources Required

Area Of Operation	*Resource Kind*	*Description*	*Quantity*	*Size*
Division E	Boom	Boom	1400	18 inch (es)
Division E	Vacuum Truck 70 bbl	Vacuum Truck 70 bbl	3	
Division E	Spill Tech	Spill Tech	5	

Assignments

Evaluate flushing tactics and obtain Unified Command approval prior to commencing operations.

Coffer dam on Tidal Rd to Dow Bridge on Tucker Bayou-
Conduct flushing operations from north end of Tucker Bayou and work south down the bayou towards Tidal Rd. Recover product with Vac trucks.

Drainage Ditch along south side of Tidal Rd. in the Tank Farm to coffer dam -
Conduct low pressure flushing along drainage ditch leading to Tuckers Bayou before the coffer dam and will collect with vacuum truck at the coffer dam.

Material collected by vacuum trucks and skimmers will be managed in accordance with a Waste Management Plan.

Special Instructions

Provide amount of material recovered by division to the Water Operations Branch Director by 10:30 & 16:30 daily.

Water Operations Branch Director:
Reid McLelland (281) 838-7567

Special Equipment / Supplies Needed for Assignment

Utilize Viscous Sweep & Sorbent Boom as needed.

Special Environmental Considerations

Report any oiled wildlife, wildlife in foam to the Wildlife Hotline 832-368-5379. Please take photo, and document location - DO NOT APPROACH.

Report any deceased fish or wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location. DO NOT DISPOSE.

Dispose contaminated PPE, debris, and sorbent materials in approved contaminated waste containers. DO NOT DISPOSE OF CONTAMINATED MATERIALS IN GENERAL TRASH.

Special Site-Specific Safety Considerations

Watch pinch points. Use proper lifting techniques and team lift when appropriate. Maintain awareness of walking surfaces to prevent slips trips and falls. Don PFD's when working within 3 ft of the waters edge, open water or onboard a vessel.

Wear appropriate PPE - no leather gloves - communicate any unsafe situations to supervisor. Utilize stop work authority if necessary. Nobody gets hurt.

Ensure all personnel are equipped with Benzene detection. If Benzene is detected at levels higher than 0.5 ppm, evacuate the area, report to supervisor and Mike Gaudet (281-787-8256) or Mike Taylor (281) 667-1771 on Night Shift. If available don Full-Face respirator with organic cartridge prior reentry. If Benzene level reaches 25ppm or above, evacuate the area and notify Mike Gaudet. Do not reenter without donning a supplied air respirator.

All equipment and personnel must be decontaminated prior to leaving the hot zone.

Action Levels for Benzene:

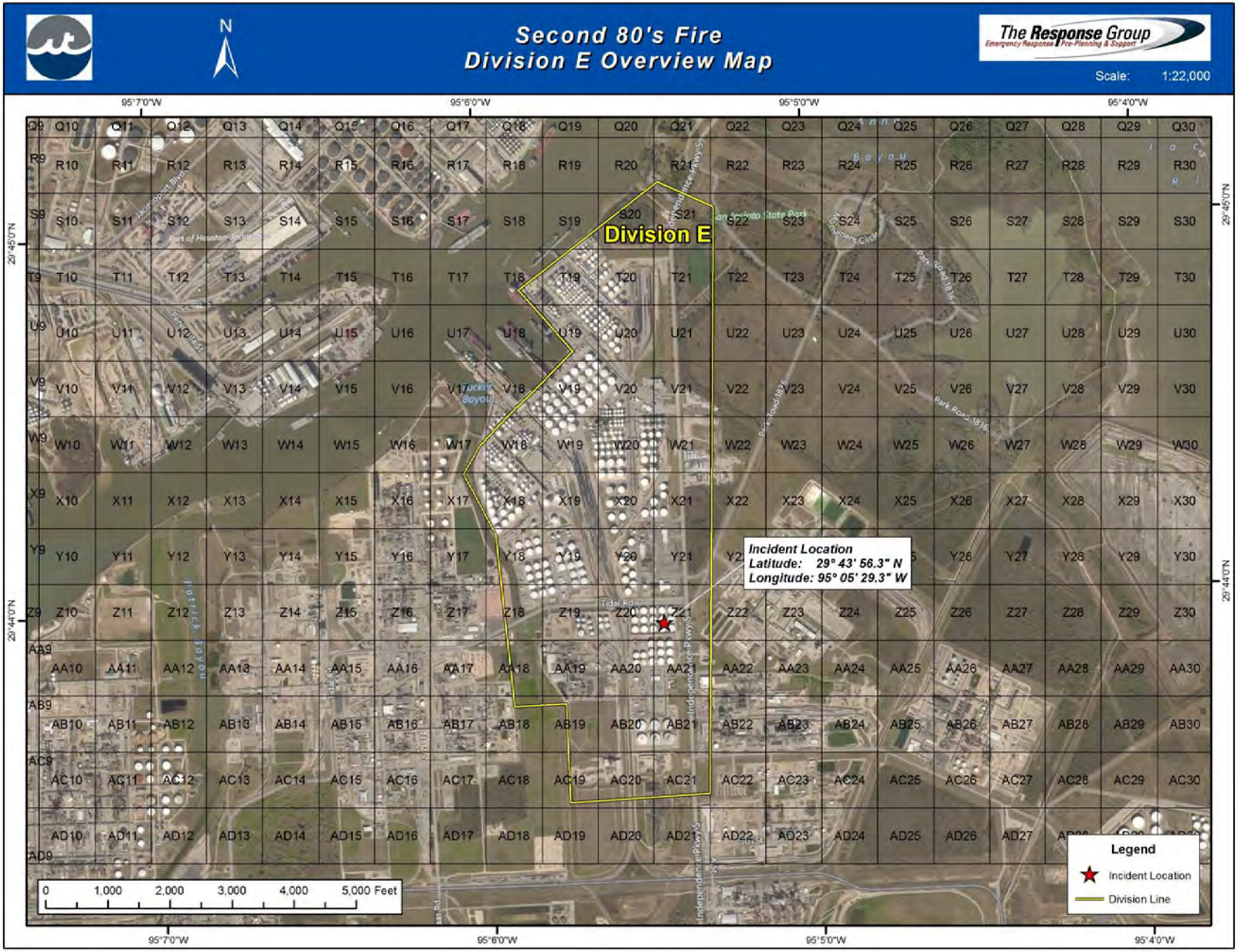
Less than 0.5ppm: No respiratory protection needed
Greater than 0.5 ppm - Don full face APR: Must change APR cartridges to prevent breakthrough every 4 hours.
Greater than 25.0 ppm - Supplied Air;

Any monitoring data that exceeds action levels will be reported to the Monitoring Supervisor. Email: Air2@iterm.com
or
Phone: 832-493-8041

Incident Name: 2nd 80's Fire

Period: Period 10 [04/03/2019 07:00 - 04/05/2019 07:00]

20190402 Division E Grid Map



Operations Personnel

Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief (Land)	Surguy, Robby	ITC	832-780-6712	Day Shift
Operations Section Chief	Barbour, Michael			Night Shift
Deputy Operations Section Chief (Water)	Brescia, Nicolas	Environmental Protection Agency	214-789-8383	Day Shift
Deputy Operations Section Chief (Land)	Burditt, John	ITC	832-240-6440	Day Shift
Deputy Operations Section Chief (Land)	Kunh, Karl	ITC	713-208-5583	Day Shift
Operations Section Chief (Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (Water)	Riedel, Jim	NRC	206-500-6480	Day Shift
Protection & Recovery Branch	Lyons, Eric	AMPOL - American Pollution Control	337-519-8070	Day Shift
Protection & Recovery Branch	Swanney, Kyle	USCG	(832) 256-7210	Night Shift
Recovery & Protection Branch Director	Nichols, Freddie	OMI	501-410-2212	Day Shift
Recovery & Protection Branch Director	Brescia, Nicolas	Environmental Protection Agency	214-789-8383	Day Shift
Protection Group Supervisor	Dalfrey, Chad	AMPOL - American Pollution Control	337-519-1161	Day Shift

Resources Required

Area Of Operation	Resource Kind	Description	Quantity	Size
Protection Group	Safety Personnel	Air Monitoring Tech	9	
Protection Group	Manpower: Responder	Spill Tech	8	
Protection Group	Vessel	Work Boat	4	
40 - M Baytown Nature Center	Boom	Protection Boom	1500	inch (es)
40 - O Baytown Nature Center Marsh	Boom	Protection Boom	1500	inch (es)

Assignments

Maintain boom to protect water intakes and environmentally sensitive areas in coordination with the Protection Group Supervisor and Environmental Unit Leader.

GRP Sites:

Division A:
NO GRP Sites.

Division B:
54-B Patrick Bayou - Needs Maintenance, boom is bunched and may need to be straightened.
54-C Drainage Ditch
40-J Carpenters Bayou
40-K Battleship
40-I Entrance to Old River

Maintain Patrick's Bayou entrance J Boom (Site #1). Maintain boom at mouth of the San Jacinto Port (Site#4), open and close as directed. Maintain and deploy additional boom as needed at Tucker's Bayou and ITC slips.

Division C:
40-L Entrance to San Jacinto River
40-F San Jacinto River Marsh
40-G Burnet Bay Marsh - Needs Maintenance. Boom piled on shoreline.

Division D:
Grid AB-33 boom area per Wildlife Branch for Resources at Risk
40-M Baytown Nature Center
54-D San Jacinto Battleground State Park
54-N Crystal Bay Marsh
TPWD-1 St. Mary's Beach
TPWD-2 South Goat Island

West Bank of San Jacinto River:
Maintain boom from Lynchburg Ferry Landing/Monument Inn along the shoreline down to the mouth of Santa Anna Bayou.
Deploy hard boom at mouth of the Santa Anna Bayou.
Maintain boom at Bostco Facility.

Division E:
54-A Tucker Bayou
Water Intake 4053

Deploy additional GRPs as directed by the Environmental Unit in accordance with the ICS 232 Resources at Risk.
The following sites are on standby and will be deployed as directed by Environmental Unit.
55 - G Green’s Bayou
53 - H Goose Creek at Business Hwy 146
53 - J Hogg Island
53 - K Barbours Cut entrance
53 - L Bayland Park Marina
53 - U Cut Between Hog & Atkinson Islands
54 - G Marsh East of DuPont Barge Dock
54 - H Lower San Jacinto Bay
54 - I Barbours Cut Turning Basin Marsh
54 - M Black Duck Bay
54 - F Alexander Island - Assess Safety and feasibility of booming west side of island. Blocks AB38, AC38, and AD38)
40 - F San Jacinto River Marsh (South I-10) - Assess Safety and feasibility of booming west side of island. Blocks AB38, AC38, and AD38)

Communications

Name / Function	***Contact Details***
Marine - USCG OPS / Tactical	Marine - USCG OPS 81A
Marine - Hailing and Emergency / All	Marine - Hailing and Emergency 16
Marine - OMI-On-water OPS / Tactical	Marine - OMI-On-water OPS 67
Operations/Safety/Incident Command / Operations	Operations/Safety/Incident Command 15

Special Equipment / Supplies Needed for Assignment

Line Spools, 50 Anchors

Special Environmental Considerations

Report any oiled wildlife, or wildlife in foam to the Environmental Unit Lead. Please take photo, and document location - DO NOT APPROACH

Avoid vessel collisions with wildlife

Avoid walking or grounding vessels in marsh areas

Dispose contaminated PPE, debris, and sorbent materials in approved contaminated waste containers. DO NOT DISPOSE OF CONTAMINATED MATERIALS IN GENERAL TRASH.

Special Site-Specific Safety Considerations

Watch pinch points. Use proper lifting techniques and team lift when appropriate. Maintain awareness of walking surfaces to prevent slips trips and falls. Maintain walking surface awareness to prevent slips, trips and falls. Don PFD's when working within 3 ft of the waters edge, open water or onboard a vessel.

Wear appropriate PPE, communicate any unsafe situations to supervisor. Utilize stop work authority if necessary. Nobody gets hurt.

Ensure all personnel are equipped with Benzene detection. If Benzene is detected at levels higher than action level, evacuate the area, report to supervisor and Mike Gaudet (281-787-8256). If available don appropriate PPE prior reentry.

Action Levels for Benzene:

Less than 0.5ppm: No respiratory protection needed
Greater than 0.5 ppm - Don full face APR: Must change APR cartridges to prevent breakthrough every 4 hours.
Greater than 25.0 ppm - Supplied Air;

20190402 Protection Group Map

Operations Personnel

Position	***Name***	***Affiliation***	***Contact Number(s)***	***Work Shift***
Operations Section Chief (Land)	Surguy, Robby	ITC	832-780-6712	Day Shift
Operations Section Chief	Barbour, Michael			Night Shift
Deputy Operations Section Chief (Water)	Brescia, Nicolas	Environmental Protection Agency	214-789-8383	Day Shift
Deputy Operations Section Chief (Land)	Burditt, John	ITC	832-240-6440	Day Shift
Deputy Operations Section Chief (Land)	Kunh, Karl	ITC	713-208-5583	Day Shift
Operations Section Chief (Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (Water)	Riedel, Jim	NRC	206-500-6480	Day Shift
On Water Decon Group	Link, Thomas	USCG MSU Texas City, TX	912-604-8890	Day Shift

Resources Required

Area Of Operation	***Resource Kind***	***Description***	***Quantity***	***Size***
On Water Decon Group	Vessel	Barge Boat	30	
On Water Decon Group	Work Boat	Work Boat	16	
On Water Decon Group	Boat Operator	Boat Operator	36	
On Water Decon Group	Decon Personnel	Decon Personnel	75	
On Water Decon Group	Boom	Boom	9000	18 inch (es)
On Water Decon Group	Sorbent: Boom	Sorbent: Boom	9000	
On Water Decon Group	Hot Water Pressure Washer	Hot Water Pressure Washer	30	
On Water Decon Group	Manpower: Responder	On-Water Air Monitor	6	
On Water Decon Group	Fire Boat	Fire Boat	3	

Assignments

Outfit, maintain, and continue to identify additional decon sites as required. Spot check teams will conduct assessment of level of contamination and direct contaminated vessels to decon site. Coordinate with MTSRU to prioritize vessels for decon. Vessel inspection team advise VTS via 21A on all ship (piloted vessels) statuses, transiting through zone and then follow-up and notify Decon Group Supervisor. Advise VTS of any tows needed decontamination. Decon operations to be conducted per the approved Decontamination Plan.

**Top priority is to assess and inspect the M/V ULTRA LASCAR and M/V CIELO DI VALPARAISO and decon if possible, in Division B.

**Proritize decon of the barge fleet at the mouth of Old River and other vessels as coordinated thru VTS.

Decon Sites:
Shell Deer Park
South of Lynchberg
Barbours Cut / Lash docks, Enterprise dock 7 & LBC dock 4
Old River
- Expand capacity and stage additional resources
ITC Pasadena
Kirby Cleaning facility (Carpenters Bayou)

Work logistics to permanently stage resources at decon sites. Personnel will transit to and from the decon sites via vehicle.

Vessels will be decontaminated after containment boom is deployed after lashing and securing the vessel. Sorbent material (pads & boom) will be used to recover any residual product/runoff from the decon operation.

(6) Decon Teams will be deployed, (1) to each site, and each Decon Team will consist of:
(1) Response Boat
(2) Barges for washdown
(3) Decon technicians

In addition to these resources, in the vicinity of the Battleship Texas Grid Q-20, there will be (1) Port of Houston Fired Department Fire Boat and (1) T&T Marine Fire Boat staged and assigned to underway commercial vessel Decon. There will be (1) Port of Houston Fire Department Fire Boat available to respond to Decon needs with-in the area of operation.

All waste generated during equipment decontamination will be handled in accordance with Federal, State, and Local regulations.

Special Instructions

USCG Decon Examiner will complete the Decontamination Form for each vessel. Turn in all completed forms to the Decon Group Supervisor at the end of each shift.

Communications

Name / Function	***Contact Details***
Marine - USCG OPS / Tactical	Marine - USCG OPS 81A
Marine - Hailing and Emergency / All	Marine - Hailing and Emergency 16
Marine - OMI-On-water OPS / Tactical	Marine - OMI-On-water OPS 67
Operations/Safety/Incident Command / Operations	Operations/Safety/Incident Command 15

Special Equipment / Supplies Needed for Assignment

VHF Radio
Camera

Special Environmental Considerations

Report any oiled wildlife, wildlife in foam to the Wildlife Hotline 832-368-5379. Please take photo, and document location - DO NOT APPROACH.

Report any deceased fish or wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location. DO NOT DISPOSE.

Dispose contaminated PPE, debris, and sorbent materials in approved contaminated waste containers. DO NOT DISPOSE OF CONTAMINATED MATERIALS IN GENERAL TRASH.

Special Site-Specific Safety Considerations

Watch pinch points. Use proper lifting techniques and team lift when appropriate. Maintain awareness of walking surfaces to prevent slips trips and falls. Don PFD's when working within 3 ft of the waters edge, open water or onboard a vessel.

Wear appropriate PPE - no leather gloves - communicate any unsafe situations to supervisor. Utilize stop work authority if necessary. Nobody gets hurt.

Ensure all personnel are equipped with Benzene detection. If Benzene is detected at levels higher than 0.5 ppm, evacuate the area, report to supervisor and Mike Gaudet (281-787-8256) or Mike Taylor (281) 667-1771 on Night Shift.

If available don Full-Face respirator with organic cartridge prior reentry. If Benzene level reaches 25ppm or above, evacuate the area and notify Mike Gaudet. Do not reenter without donning a supplied air respirator.

All equipment and personnel must be decontaminated prior to leaving the hot zone.

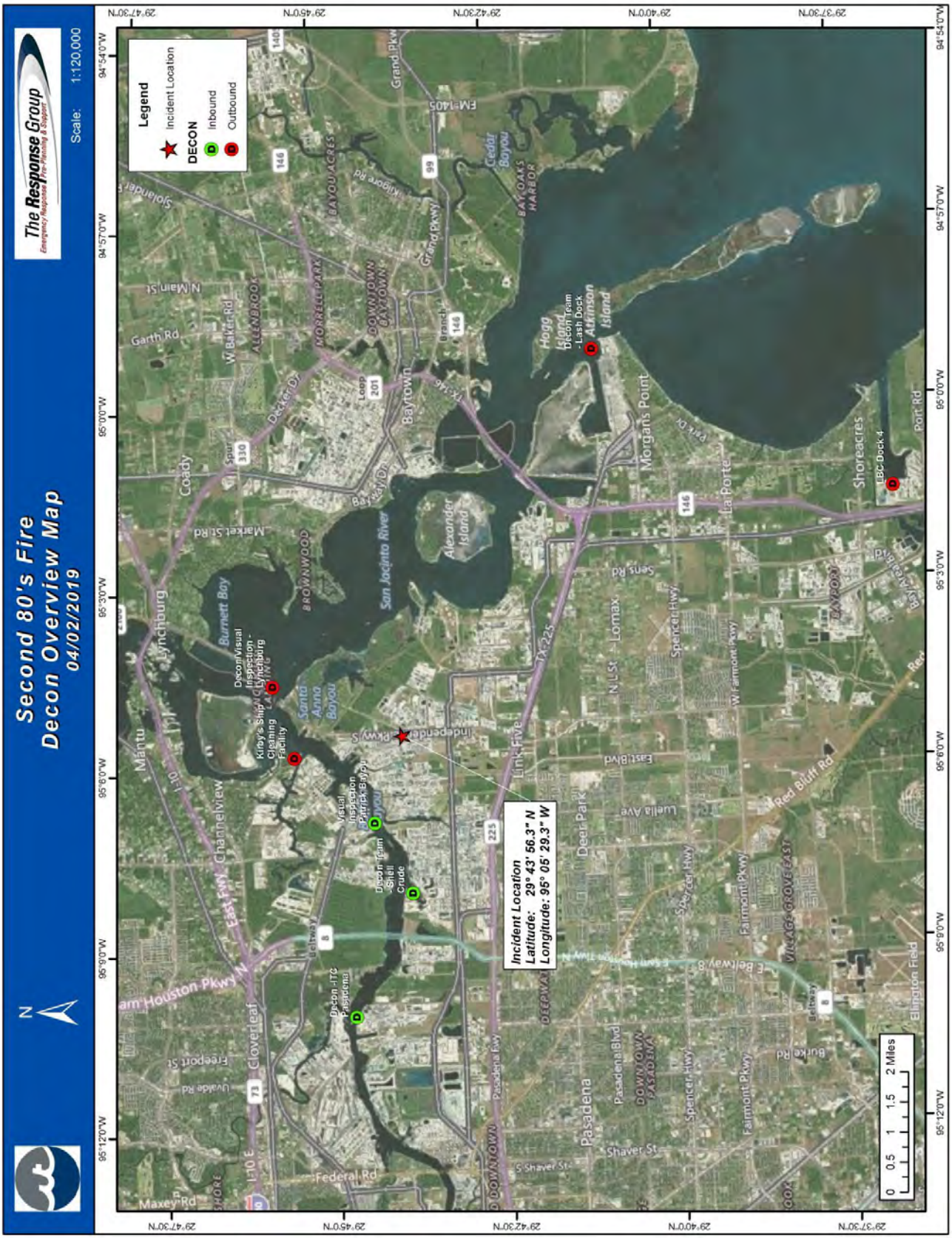
Action Levels for Benzene:

Less than 0.5ppm: No respiratory protection needed
Greater than 0.5 ppm - Don full face APR: Must change APR cartridges to prevent breakthrough every 4 hours.
Greater than 25.0 ppm - Supplied Air

Report any LEL detection (delineate area).

Any monitoring data that exceeds action levels will be reported to the Monitoring Supervisor. Email: Air2@iterm.com
or
Phone: 832-493-8041

20190402 Decon Map



Operations Personnel

Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief (Land)	Surguy, Robby	ITC	832-780-6712	Day Shift
Operations Section Chief	Barbour, Michael			Night Shift
Deputy Operations Section Chief (Water)	Brescia, Nicolas	Environmental Protection Agency	214-789-8383	Day Shift
Deputy Operations Section Chief (Land)	Burditt, John	ITC	832-240-6440	Day Shift
Deputy Operations Section Chief (Land)	Kunh, Karl	ITC	713-208-5583	Day Shift
Operations Section Chief (Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (Water)	Riedel, Jim	NRC	206-500-6480	Day Shift
On-Water Air Monitoring Supervisor	Shunda, Alexander	USCG	609-351-7153	Day Shift

Resources Required

Area Of Operation	Resource Kind	Description	Quantity	Size
On-Water Air Monitoring Group	Equipment: Safety	Air Monitoring Devices	5	
On-Water Air Monitoring Group	Vessel	USCG TANB	1	
On-Water Air Monitoring Group	Manpower: Responder	Air Monitoring Tech	4	
On-Water Air Monitoring Group	Work Boat	EPA Air Monitoring Vessel	1	
On-Water Air Monitoring Group	Boat Operator	Boat Operator	1	
On-Water Air Monitoring Group	Vessel Crew	Vessel Crew	2	

Assignments

USCG Strike Team to conduct air monitoring throughout all divisions as directed on the TANB.

EPA: (1) Roving monitoring teams conducting air monitoring (1 - EPA, 1-TCEQ, 1-CTEH). . If there is a area of concern where TAGA (Trace Air Gas Analyzer) can be utilized, contact EPA.
Personnel: 3
Vessel (ITC) - 1

Communications

Name / Function	Contact Details
Marine - USCG OPS / Tactical	Marine - USCG OPS 81A
Marine - Hailing and Emergency / All	Marine - Hailing and Emergency 16
Marine - OMI-On-water OPS / Tactical	Marine - OMI-On-water OPS 67
Operations/Safety/Incident Command / Operations	Operations/Safety/Incident Command 15

Special Environmental Considerations

Report any oiled wildlife, wildlife in foam to the Wildlife Hotline 832-368-5379. Please take photo, and document location - DO NOT APPROACH.

Report any deceased fish or wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location. DO NOT DISPOSE.

Dispose contaminated PPE, debris, and sorbent materials in approved contaminated waste containers. DO NOT DISPOSE OF CONTAMINATED MATERIALS IN GENERAL TRASH.

Special Site-Specific Safety Considerations

Follow all traffic signs, posted speeds limits and stay on paved roads. Maintain situational awareness while driving. Maintain walking surface awareness to prevent slips, trips and falls. Don PFD's when working close to open water or onboard a vessel.

Wear appropriate PPE, communicate any unsafe situations to supervisor. Utilize stop work authority if necessary. Nobody gets hurt.

Ensure all personnel are equipped with Benzene detection. If Benzene is detected at levels higher than action level, evacuate the area, report to supervisor and Mike Gaudet (281)-787-8256 on Day Shift or Mike Taylor (281) 667-1771 on Night Shift. If available don appropriate PPE prior reentry.

Action Levels for Benzene:

>0.5 ppm - Don full face APR
>25 ppm - Supplied air; must change APR cartridges to prevent breakthrough every 4 hours.

Report any LEL detection (delineate area).

Any monitoring data that exceeds action levels will be reported to the Monitoring Supervisor. Email: Air2@iterm.com
or
Phone: 832-493-8041

20190402 On Water Air Monitoring Group Map

Operations Personnel

Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief (Land)	Surguy, Robby	ITC	832-780-6712	Day Shift
Operations Section Chief	Barbour, Michael			Night Shift
Deputy Operations Section Chief (Water)	Brescia, Nicolas	Environmental Protection Agency	214-789-8383	Day Shift
Deputy Operations Section Chief (Land)	Burditt, John	ITC	832-240-6440	Day Shift
Deputy Operations Section Chief (Land)	Kunh, Karl	ITC	713-208-5583	Day Shift
Operations Section Chief (Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (Water)	Riedel, Jim	NRC	206-500-6480	Day Shift
Tank Farm Operations Branch Director	Holley, Carl	ITC	281-380-1012	Day Shift
Tank Farm Operations Branch Director	Cadena, Hector	ITC	281-884-0380	Night Shift
Tank Farm Recovery Group Supervisor	Thomas, Harold	ITC	713-823-2543	Day Shift
Tank Farm Recovery Group Supervisor	Moses, Terry	ITC	281-389-9078	Night Shift

Resources Required

Area Of Operation	Resource Kind	Description	Quantity	Size
Tank Farm Recovery Group	Pumps	SS MSP-300	3	
Tank Farm Recovery Group	Manpower: Responder	ERT Member	10	
Tank Farm Recovery Group	Hose/Accessories	Vacuum Hose	3	
Tank Farm Recovery Group	Hydraulic Power Unit	Hydraulic Power Unit	3	
Tank Farm Recovery Group	Vehicle: Fire Engine	Fire Engine	2	

Assignments

Teams will monitor for LEL prior to entry, 2% LEL or greater, NO ENTRY WILL BE MADE.

Operations will be conducted in coordination with UAS for aerial assessment prior to and during operations.

(2) 2-man teams, (1) team deployed (1) team will remain on standby, donning Level B PPE/Level A Flash Suit, will conduct pre-entry site characterization after drone assessment of the tank area is completed.

Pump 80-7 to frac tank. Vac truck 80-2 and 80-3. Tank entry to drain material from 80-5, 80-6, 80-8. Pumping will be completed using a pump with a manifold with stainless-steel discharge hoses and transfer to 100-28. Personnel will maintain readiness and be staged at hose connections during initial start up.

Other steps will be taken as needed to execute removal of material and stabilize the site.

Assessment will be conducted by T&T before product transfer begins with tanks 80-5 and 80-6, first 80's tank manifold will be mitigated.

Tank Farm entry will only be made during daylight hours. Special exemption must be approved by Safety, Operations, and Incident Command. All entry personnel will be properly decontaminated after completion of work in tank area.

Communications

Name / Function	*Contact Details*
ITC Trunking System / Command	ITC Trunking System Site 1 & 2
Operations/Safety/Incident Command / Operations	Operations/Safety/Incident Command 15

Tactical Objectives

Ensure all spilled material stays on site and in containment

Special Equipment / Supplies Needed for Assignment

6" Flange to 4: female cam lock
Bolts for reducers
Teflon Gaskets
SCBAs
Bunker Gear
PPE - Level A Flash Suit, respirators, organic vapor cartridges, rubber boots, chem gloves, cascade systems/supplied-air systems, etc.
Radios

Special Environmental Considerations

Report any oiled wildlife, wildlife in foam to the Wildlife Hotline 832-368-5379. Please take photo, and document location - DO NOT APPROACH.

Report any deceased fish or wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location. DO NOT DISPOSE.

Dispose contaminated PPE, debris, and sorbent materials in approved contaminated waste containers. DO NOT DISPOSE OF CONTAMINATED MATERIALS IN GENERAL TRASH.

Special Site-Specific Safety Considerations

Continuous air monitoring will be conducted to direct use of respiratory protection for workers. PPE will include fire-resistant coveralls, chemical protective boots, chemical resistant gloves, hearing protection, eye protection, splash guards (as required), outer protective suits (as required), and respiratory protection. Respirators with organic vapor cartridges and supplied-air systems will be provided. Grounding/bonding of transfer system will be completed. Transfer operations will cease during lightning events. All personnel on-site have stop-work authority. A JSA will be completed prior to commencing transfer operations.

Watch pinch points. Use proper lifting techniques and team lift when appropriate. Maintain awareness of walking surfaces to prevent slips trips and falls.

Wear appropriate PPE - no leather gloves - communicate any unsafe situations to supervisor. Utilize stop work authority if necessary. Nobody gets hurt.

Ensure all personnel are equipped with Benzene detection. If Benzene is detected at levels higher than action level, evacuate the area, report to supervisor and Mike Gaudet (281)-787-8256 on Day Shift or Mike Taylor (281) 667-1771 on Night Shift. If available don appropriate PPE prior reentry.

All equipment and personnel must be decontaminated prior to leaving the hot zone.

Action Levels for Benzene:

>0.5 ppm - Don full face APR
>25 ppm - Supplied air; must change APR cartridges to prevent breakthrough every 4 hours.

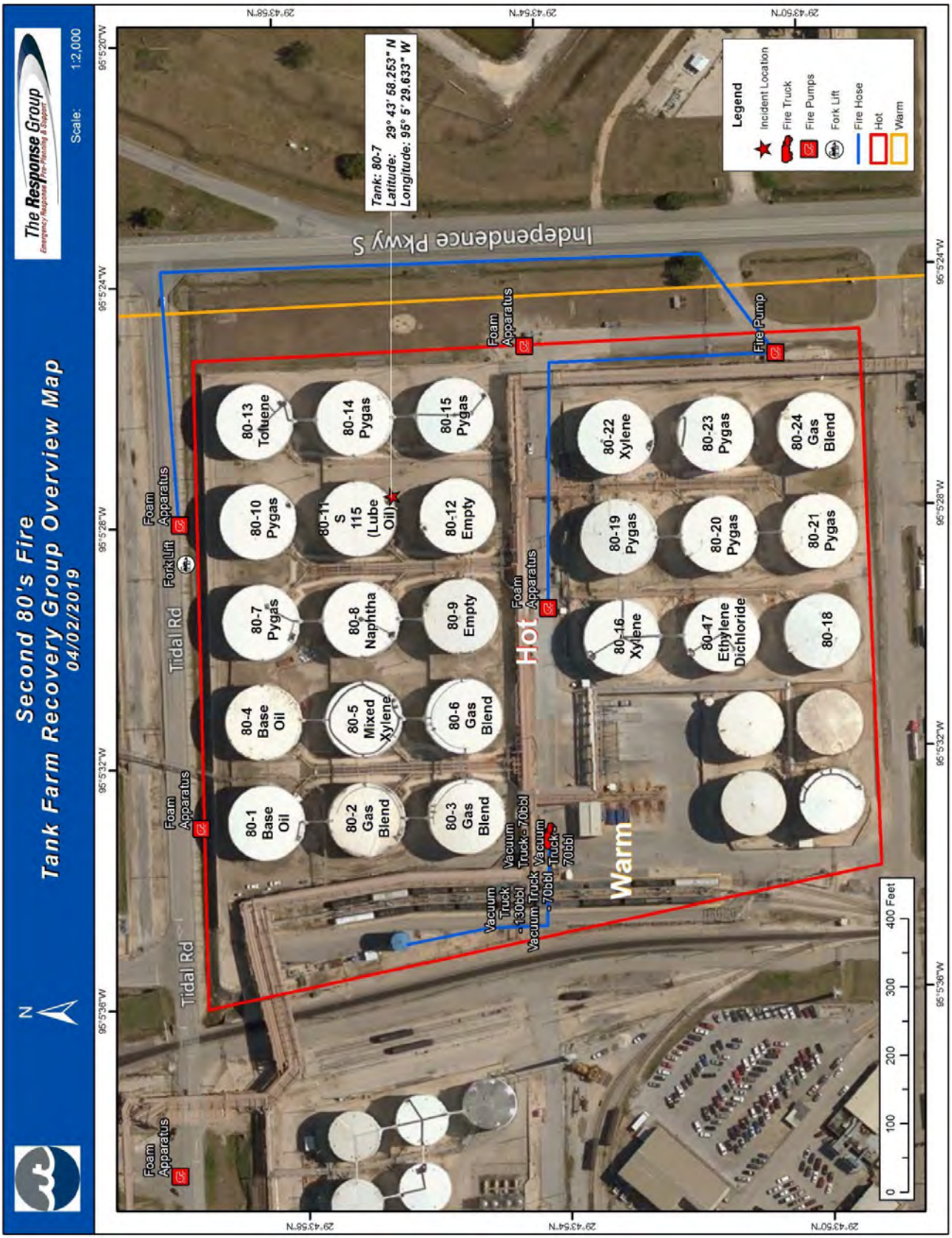
Report any LEL detection (delineate area).

Any monitoring data that exceeds action levels will be reported to the Monitoring Supervisor. Email: Air2@iterm.com
or
Phone: 832-493-8041

Additional Information

Pumping Crew
Trevor Reed
Mario Tovar
Ricky Castillo
Cory Lewis
Rick Francis
Additional personnel as required
Robbie Dison: Safety Assistant On-Site
Tom Noble: Project Management / Supervision
Safety Director: Cody Wilson

20190402 Tank Farm Recovery Group Map



Operations Personnel

Position	*Name*	*Affiliation*	*Contact Number(s)*	*Work Shift*
Operations Section Chief (Land)	Surguy, Robby	ITC	832-780-6712	Day Shift
Operations Section Chief	Barbour, Michael			Night Shift
Deputy Operations Section Chief (Water)	Brescia, Nicolas	Environmental Protection Agency	214-789-8383	Day Shift
Deputy Operations Section Chief (Land)	Burditt, John	ITC	832-240-6440	Day Shift
Deputy Operations Section Chief (Land)	Kunh, Karl	ITC	713-208-5583	Day Shift
Operations Section Chief (Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (Water)	Riedel, Jim	NRC	206-500-6480	Day Shift
Tank Farm Operations Branch Director	Holley, Carl	ITC	281-380-1012	Day Shift
Tank Farm Operations Branch Director	Cadena, Hector	ITC	281-884-0380	Night Shift
Fire Suppression Group Supervisor	Dwight, Williams	US Fire Pump	409-273-4870	Day Shift
Fire Suppression Group Supervisor	Guccione, Cory	ITC	281-380-1029	Night Shift
Fire Water Containment TF Leader	Walker, Derek	ITC	281-515-0751	Day Shift
Fire Water Containment TF Leader	Martin, Gene	ITC	832-259-6587	Night Shift

Resources Required

Area Of Operation	*Resource Kind*	*Description*	*Quantity*	*Size*
Firewater Containment TF	Manpower: Responder	Manpower: Responder	4	
Firewater Containment TF	Manpower: Supervisor	Manpower: Supervisor	1	
Firewater Containment TF	Pumps	Pumps	1	
Firewater Containment TF	Vacuum Truck	Vacuum Truck	4	

Assignments

Maintain ~2' of foam and mixture within the tank farm. Will adjust accordingly if rain should occur.

Ensure all firewater/mix used in firefighting operations is contained and removed. Utilize vacuum trucks, pumps, suction hose, and manifold hose to pump water into tank 80-33.

Coffer dam has been constructed on the ditch south of Tidal Rd. which leads to Tucker Bayou. Vacuum trucks will continue recover any material as needed from this location. Evaluation of options for additional Coffer dam construction will continue.

Other steps will be taken as needed to execute removal of material and stabilize the site.

Communications

Name / Function	*Contact Details*
ITC Trunking System / Command	ITC Trunking System Site 1 & 2
Operations/Safety/Incident Command / Operations	Operations/Safety/Incident Command 15
CIMA / Dispatch	CIMA 1

Tactical Objectives

Ensure all spilled material stays on site and in containment

Special Environmental Considerations

Report any oiled wildlife, wildlife in foam to the Wildlife Hotline 832-368-5379. Please take photo, and document location - DO NOT APPROACH.

Report any deceased fish or wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location. DO NOT DISPOSE.

Dispose contaminated PPE, debris, and sorbent materials in approved contaminated waste containers. DO NOT DISPOSE OF CONTAMINATED MATERIALS IN GENERAL TRASH.

Special Site-Specific Safety Considerations

Keep clear of heavy equipment in operation. Watch pinch points. Utilize flagger/spotter if necessary.

Wear appropriate PPE - no leather gloves - communicate any unsafe situations to supervisor. Utilize stop work authority if necessary. Nobody gets hurt.

Ensure all personnel are equipped with Benzene detection. If Benzene is detected at levels higher than action level, evacuate the area, report to supervisor and Mike Gaudet (281)-787-8256 on Day Shift or Mike Taylor (281) 667-1771 on Night Shift. If available don appropriate PPE prior reentry.

Action Levels for Benzene:

>0.5 ppm - Don full face APR
>25 ppm - Supplied air; must change APR cartridges to prevent breakthrough every 4 hours.

Report any LEL detection (delineate area).

Any monitoring data that exceeds action levels will be reported to the Monitoring Supervisor.
Email: Air2@iterm.com
or
Phone: 832-493-8041

Operations Personnel

Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief (Land)	Surguy, Robby	ITC	832-780-6712	Day Shift
Operations Section Chief	Barbour, Michael			Night Shift
Deputy Operations Section Chief (Water)	Brescia, Nicolas	Environmental Protection Agency	214-789-8383	Day Shift
Deputy Operations Section Chief (Land)	Burditt, John	ITC	832-240-6440	Day Shift
Deputy Operations Section Chief (Land)	Kunh, Karl	ITC	713-208-5583	Day Shift
Operations Section Chief (Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (Water)	Riedel, Jim	NRC	206-500-6480	Day Shift
Tank Farm Operations Branch Director	Holley, Carl	ITC	281-380-1012	Day Shift
Tank Farm Operations Branch Director	Cadena, Hector	ITC	281-884-0380	Night Shift
Fire Suppression Group Supervisor	Dwight, Williams	US Fire Pump	409-273-4870	Day Shift
Fire Suppression Group Supervisor	Guccione, Cory	ITC	281-380-1029	Night Shift
Foam Application TF Leader	Nawrocki, Ryan	US Fire Pump	(225) 931-0694	Day Shift
Foam Application TF Leader	Triche, Robert	US Fire Pump	225-209-4455	Night Shift

Resources Required

Area Of Operation	Resource Kind	Description	Quantity	Size
Foam Application TF	Manpower: Responder	Manpower: Responder	12	
Foam Application TF	Manpower: Supervisor	Manpower: Supervisor	1	
Foam Application TF	Pumps	Pumps	1	
Foam Application TF	Fire Fighting Foam	Foam Totes	1000	
Foam Application TF	Fire Fighting Equipment	Foam Pumper	2	

Assignments

Ensure continuous foam blanket is applied within the tank berm area to mitigate any re-ignition potential. Foam applied as needed using multiple stationary foam cannons. Every 2 hours (as necessary) foam will be applied near tanks 80-2, 80-3, 80-5, 80-6, 80-7, 80-12, 80-13, 80-14, and 80-15. Firefighting team's specific focus is fire protection, fire suppression and vapor suppression.

Continue use of infrared imaging camera to read and/or detect any vapor yields. Continue aggressive metering and monitoring around tank farm area.

Foam Type(s): 1-3%

Other steps will be taken as needed to prevent fire, control emissions and stabilize the site.

Tank entry will only be made during daylight hours.

Communications

Name / Function	***Contact Details***
ITC Trunking System / Command	ITC Trunking System Site 1 & 2
Operations/Safety/Incident Command / Operations	Operations/Safety/Incident Command 15

Special Environmental Considerations

Report any oiled wildlife, wildlife in foam to the Wildlife Hotline 832-368-5379. Please take photo, and document location - DO NOT APPROACH.

Report any deceased fish or wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location. DO NOT DISPOSE.

Dispose contaminated PPE, debris, and sorbent materials in approved contaminated waste containers. DO NOT DISPOSE OF CONTAMINATED MATERIALS IN GENERAL TRASH.

Special Site-Specific Safety Considerations

Keep clear of heavy equipment in operation. Watch pinch points. Utilize flagger/spotter if necessary. Use proper lifting techniques and team lift when appropriate. Maintain awareness of walking surfaces to prevent slips trips and falls.

Wear appropriate PPE - no leather gloves - communicate any unsafe situations to supervisor. Utilize stop work authority if necessary. Nobody gets hurt.

Ensure all personnel are equipped with Benzene detection. If Benzene is detected at levels higher than action level, evacuate the area, report to supervisor and Mike Gaudet (281)-787-8256 on Day Shift or Mike Taylor (281) 667-1771 on Night Shift. If available don appropriate PPE prior reentry.

Action Levels for Benzene:

>0.5 ppm - Don full face APR
>25 ppm - Supplied air; must change APR cartriges to prevent breakthrough every 4 hours.

Report any LEL detection (delineate area).

Any monitoring data that exceeds action levels will be reported to the Monitoring Supervisor. Email: Air2@iterm.com
or
Phone: 832-493-8041

Operations Personnel

Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief (Land)	Surguy, Robby	ITC	832-780-6712	Day Shift
Operations Section Chief	Barbour, Michael			Night Shift
Deputy Operations Section Chief (Water)	Brescia, Nicolas	Environmental Protection Agency	214-789-8383	Day Shift
Deputy Operations Section Chief (Land)	Burditt, John	ITC	832-240-6440	Day Shift
Deputy Operations Section Chief (Land)	Kunh, Karl	ITC	713-208-5583	Day Shift
Operations Section Chief (Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (Water)	Riedel, Jim	NRC	206-500-6480	Day Shift
Monitoring Branch Director	Gaudet, Michael	ITC	(281) 787-8256	Day Shift
Monitoring Branch Director	Taylor, Mike	ITC	(281) 667-1771	Night Shift
Air Monitoring Group Supervisor	Langley, Justin	CTEH	281-627-2889	Day Shift
Air Monitoring Group Supervisor	Allaby, Eric	CTEH	(501) 529-7164	Night Shift

Resources Required

Area Of Operation	Resource Kind	Description	Quantity	Size
Land Based Air Monitoring Group	Equipment: Safety	Air Monitoring Devices	204	
Land Based Air Monitoring Group	Manpower: Responder	Air Monitoring Tech	102	
Land Based Air Monitoring Group	Aircraft: UAV	Aircraft	1	
Land Based Air Monitoring Group	Vehicle	Vehicle	90	
Land Based Air Monitoring Group	Work Boat	EPA Air Monitoring Vessel	1	
Land Based Air Monitoring Group	Boat Operator	Boat Operator	2	

Assignments

CTEH: Real time air monitoring (360 deg. 24hr) in operational areas as well as in community. (Benzene, VOCs) (34) Analytical stations samples go to lab for rush turnaround (same day or next day). See Air Monitoring Plan for details.
Air Monitoring Device Kits: 275 (3 Air Monitoring Devices per Kit)
Personnel: 102
Vehicles: 90

CTEH will work with the Division Supervisor will determine the air monitoring support level on all vessels.

EPA: (2) Roving monitoring teams conducting air monitoring. Real-time monitoring will occur via ASPECT aerial platform. TAGA bus to continue to conduct air monitoring in community areas. If there is a area of concern where TAGA can be utilized, contact EPA.
Personnel: 16
Vehicles: 1
Aircraft: 1

MSRC: (2) CTEH personnel & (1) MSRC Tech will conduct continuous monitoring on the deck of the Texas Responder.
Air Monitoring Devices: 1
Personnel: 2
Vessels: 1

CST is available if need through Harris County Liaison.

TCEQ will deploy (3) teams during day operations and (5) teams during night operations. The teams will be positioned downwind of the facility in community areas. In addition (2) air monitoring stations are strategically located in coordination with unified command.
SWS Personnel: 4
Vehicles: 3

Harris County Pollution Control: Will conduct roving monitoring along 225 and Tidal Rd to railroad tracks. Also will conduct monitoring at 225 and Miller Rd. to railroad tracks.
Air Monitoring Devices: 2
Personnel: 2
Vehicles: 1

Any monitoring data that exceeds action levels will be reported to the Monitoring Supervisor.

Email: Air2@iterm.com
Phone: 832-493-8041

Communications

Name / Function	*Contact Details*
Operations/Safety/Incident Command / Operations	Operations/Safety/Incident Command 15

Special Environmental Considerations

Report any oiled wildlife, wildlife in foam to the Wildlife Hotline 832-368-5379. Please take photo, and document location - DO NOT APPROACH.

Report any deceased fish or wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location. DO NOT DISPOSE.

Dispose contaminated PPE, debris, and sorbent materials in approved contaminated waste containers. DO NOT DISPOSE OF CONTAMINATED MATERIALS IN GENERAL TRASH.

Special Site-Specific Safety Considerations

Follow all traffic signs, posted speeds limits and stay on paved roads. Maintain situational awareness while driving. Maintain walking surface awareness to prevent slips, trips and falls. Don PFD's when working close to open water or onboard a vessel.

Wear appropriate PPE - no leather gloves - communicate any unsafe situations to supervisor. Utilize stop work authority if necessary. Nobody gets hurt.

Ensure all personnel are equipped with Benzene detection. If Benzene is detected at levels higher than action level, evacuate the area, report to supervisor and Mike Gaudet (281)-787-8256 on Day Shift or Mike Taylor (281) 667-1771 on Night Shift. If available don appropriate PPE prior reentry.

Action Levels for Benzene:

>0.5 ppm - Don full face APR
>25 ppm - Supplied air; must change APR cartridges to prevent breakthrough every 4 hours.

Report any LEL detection (delineate area).

Any monitoring data that exceeds action levels will be reported to the Monitoring Supervisor. Email: Air2@iterm.com
or
Phone: 832-493-8041

Operations Personnel

Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief (Land)	Surguy, Robby	ITC	832-780-6712	Day Shift
Operations Section Chief	Barbour, Michael			Night Shift
Deputy Operations Section Chief (Water)	Brescia, Nicolas	Environmental Protection Agency	214-789-8383	Day Shift
Deputy Operations Section Chief (Land)	Burditt, John	ITC	832-240-6440	Day Shift
Deputy Operations Section Chief (Land)	Kunh, Karl	ITC	713-208-5583	Day Shift
Operations Section Chief (Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (Water)	Riedel, Jim	NRC	206-500-6480	Day Shift
Monitoring Branch Director	Gaudet, Michael	ITC	(281) 787-8256	Day Shift
Monitoring Branch Director	Taylor, Mike	ITC	(281) 667-1771	Night Shift
Water Sampling Group Supervisor	Kubitz, Jody	Cardno	815-355-3938	Day Shift

Resources Required

Area Of Operation	Resource Kind	Description	Quantity	Size
Water Sampling Group	Miscellaneous	Water Sampling Kits	2	
Water Sampling Group	Manpower: Responder	Air Monitoring Tech	10	
Water Sampling Group	Vehicle	Vehicle	3	
Water Sampling Group	Work Boat	EPA Air Monitoring Vessel	10	
Water Sampling Group	Boat Operator	Boat Operator	10	

Assignments

Conduct water sampling in various locations. Samples will be taken from shoreline access points and vessels as needed. All sampling results will be communicated back to Unified Command. Sampling will be conducted in accordance with each entities Sampling Plan

EPA: (1) Surface water sampling group will conduct sampling upstream of the confluence of Tucker Bayou (daily) and the Ship Channel (outside of the containment), San Jacinto State Historical Park, and the vicinity of the Lynchburg Reservoir, Juan Seguin County Park, River Terrace Park. Additional areas will be sampled when needed.

TCEQ: (3) Surface quality groups will conduct water sampling east of Channelview, as far as the eastern border of Galveston Bay and as far south as Kemah, an additional shore sampling team will be conducting sampling in Gulf side of Galveston Island and Crystal Beach in Bolivar peninsula. Harris County Pollution Control will continue to work with TCEQ regarding water sampling data.

Cardno: (10) Teams will conduct water sampling by vessel and taking a full suite of samples from Buffalo Bayou east for several miles. Reference the Foam Product & Water Sampling Plan for additional details.

ITC: Water sampling will occur at outfall 3 regularly every two hours. If outfall 3 is opened, take additional sample.

Other steps as needed to characterize the impact to water and aquatic environment.

Communications

Name / Function	Contact Details
Marine - USCG OPS / Tactical	Marine - USCG OPS 81A

Communications

Name / Function	***Contact Details***
Marine - Hailing and Emergency / All	Marine - Hailing and Emergency 16
Marine - OMI-On-water OPS / Tactical	Marine - OMI-On-water OPS 67
Operations/Safety/Incident Command / Operations	Operations/Safety/Incident Command 15

Special Environmental Considerations

Report any oiled wildlife, wildlife in foam to the Wildlife Hotline 832-368-5379. Please take photo, and document location - DO NOT APPROACH.

Report any deceased fish or wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location. DO NOT DISPOSE.

Dispose contaminated PPE, debris, and sorbent materials in approved contaminated waste containers. DO NOT DISPOSE OF CONTAMINATED MATERIALS IN GENERAL TRASH.

Special Site-Specific Safety Considerations

Maintain walking surface awareness to prevent slips, trips and falls. Don PFD's when working within 3 ft of the waters edge, open water or onboard a vessel.

Wear appropriate PPE - no leather gloves - communicate any unsafe situations to supervisor. Utilize stop work authority if necessary. Nobody gets hurt.

Ensure all personnel are equipped with Benzene detection. If Benzene is detected at levels higher than action level, evacuate the area, report to supervisor and Mike Gaudet (281)-787-8256 on Day Shift or Mike Taylor (281) 667-1771 on Night Shift. If available don appropriate PPE prior reentry.

Action Levels for Benzene:

Less than 0.5ppm: No respiratory protection needed
Greater than 0.5 ppm - Don full face APR: Must change APR cartridges to prevent breakthrough every 4 hours.
Greater than 25.0 ppm - Supplied Air;

Report any LEL detection (delineate area).

Any monitoring data that exceeds action levels will be reported to the Monitoring Supervisor. Email: Air2@iterm.com
or
Phone: 832-493-8041

Operations Personnel

Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief (Land)	Surguy, Robby	ITC	832-780-6712	Day Shift
Operations Section Chief	Barbour, Michael			Night Shift
Deputy Operations Section Chief (Water)	Brescia, Nicolas	Environmental Protection Agency	214-789-8383	Day Shift
Deputy Operations Section Chief (Land)	Burditt, John	ITC	832-240-6440	Day Shift
Deputy Operations Section Chief (Land)	Kunh, Karl	ITC	713-208-5583	Day Shift
Operations Section Chief (Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (Water)	Riedel, Jim	NRC	206-500-6480	Day Shift
Rapid Assessment Team (RAT)	Wakefield, Jeff	Cardno	3023889173	Day Shift

Resources Required

Area Of Operation	Resource Kind	Description	Quantity	Size
SCAT / RAT	Equipment: Safety	Air Monitoring Devices	4	
SCAT / RAT	Manpower: Responder	Air Monitoring Tech	4	
SCAT / RAT	Vehicle	Vehicle	4	
SCAT / RAT	Work Boat	EPA Air Monitoring Vessel	4	
SCAT / RAT	Boat Operator	Boat Operator	4	

Assignments

(4) Shoreline Cleanup Assessment Technique (SCAT)/ Rapid Assessment Teams (RAT) and (1) UAS team to conduct surveys along both shorelines of the ship channel to assess any environmental impacts. Teams will be comprised of Cardno/ITC, Federal (where available) and State personnel. All surveys will be conducted per the Rapid Assessment Team Plan or the Shoreline Cleanup Assessment Technique (SCAT) Plan.

Communications

Name / Function	Contact Details
Operations/Safety/Incident Command / Operations	Operations/Safety/Incident Command 15

Special Environmental Considerations

Report any oiled wildlife, wildlife in foam to the Wildlife Hotline 832-368-5379. Please take photo, and document location - DO NOT APPROACH.

Report any deceased fish or wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location. DO NOT DISPOSE.

Dispose contaminated PPE, debris, and sorbent materials in approved contaminated waste containers. DO NOT DISPOSE OF CONTAMINATED MATERIALS IN GENERAL TRASH.

No pitting/trenching shall be undertaken at the State Park without prior approval from the EU, State Park and SHPO.

Special Site-Specific Safety Considerations

Maintain walking surface awareness to prevent slips, trips and falls. Don PFD's when working within 3 ft of the waters edge, open water or onboard a vessel.

Wear appropriate PPE, communicate any unsafe situations to supervisor. Utilize stop work authority if necessary. Nobody gets hurt.

Ensure all personnel are equipped with Benzene detection. If Benzene is detected at levels higher than action level, evacuate the area, report to supervisor and Mike Gaudet (281-787-8256).

All equipment and personnel must be decontaminated prior to leaving the hot zone.

Action Levels for Benzene:

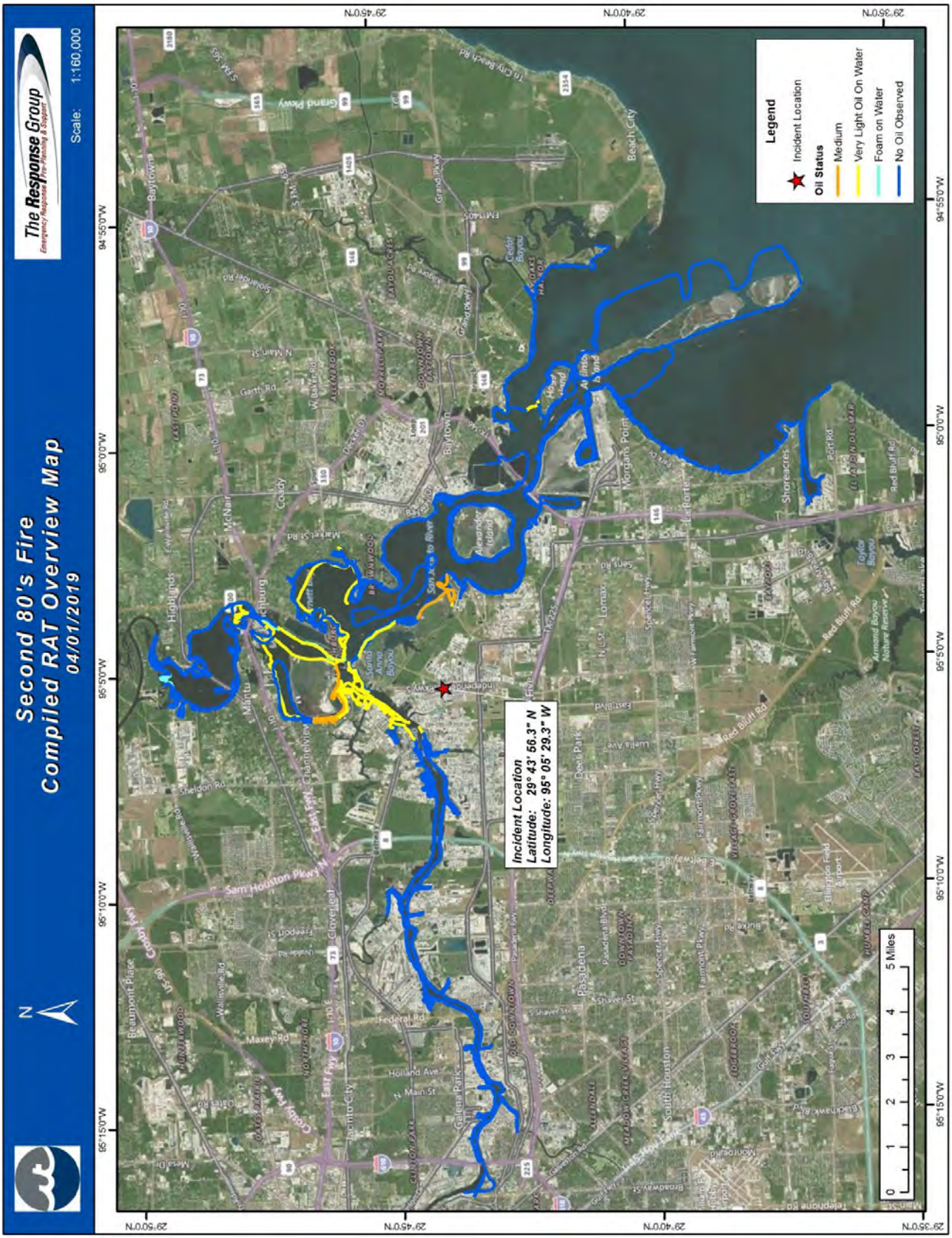
Less than 0.5ppm: No respiratory protection needed
Greater than 0.5 ppm - Don full face APR: Must change APR cartridges to prevent breakthrough every 4 hours.
Greater than 25.0 ppm - Supplied Air;

Report any LEL detection (delineate area).

Any monitoring data that exceeds action levels will be reported to the Monitoring Supervisor. Email: Air2@iterm.com
or
Phone: 832-493-8041

20190331 Compiled SCAT Group Map

20190401 Compiled RAT Map



Operations Personnel

Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief (Land)	Surguy, Robby	ITC	832-780-6712	Day Shift
Operations Section Chief	Barbour, Michael			Night Shift
Deputy Operations Section Chief (Water)	Brescia, Nicolas	Environmental Protection Agency	214-789-8383	Day Shift
Deputy Operations Section Chief (Land)	Burditt, John	ITC	832-240-6440	Day Shift
Deputy Operations Section Chief (Land)	Kunh, Karl	ITC	713-208-5583	Day Shift
Operations Section Chief (Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (Water)	Riedel, Jim	NRC	206-500-6480	Day Shift
Wildlife Branch Director	Murgatroyd, Rhonda	Wildlife Response Services LLC	713-705-5897	Day Shift
Wildlife Branch Director	Biggs, Heather	Texas Parks and Wildlife	832-374-3925	Day Shift

Resources Required

Area Of Operation	Resource Kind	Description	Quantity	Size
Wildlife Branch	Small Boat	Small Boat	1	14 - 29 feet
Wildlife Branch	Boat Operator	Boat Operator	1	
Wildlife Branch	Wildlife Specialist	Avian Specialist	4	
Wildlife Branch	Safety Personnel	Air Monitoring Tech	4	
Wildlife Branch	Manpower: Responder	Marine Mammal Specialist	2	
Wildlife Branch	Facilities	Rehab Facility	1	
Wildlife Branch	Wildlife Trailer	Wildlife Trailer	1	
Wildlife Branch	Equipment: Comms	Wildlife Hotline Phone	1	
Wildlife Branch	Manpower: Supervisor	Wildlife Branch Director	2	
Wildlife Branch	Wildlife Support Tech	Wildlife Support Tech	1	

Assignments

Wildlife Recoonnaisance & Recovery

(2) Wildlife Recovery Team and (1) Marine Mammal Monitoring Team will conduct boat and shoreline assessments for oiled and at-risk wildlife using standard protocols. Assess the locations, numbers, and types of potentially impacted wildlife. Field teams will immediately notify the wildlife hotline of any observed oil impacts to wildlife. Coordinate any observations reported to the JIC and relay information to the Wildlife Branch Director.

Be aware of weather constraints and adjust accordingly. If weather deteriorates to an unsafe condition proceed to nearest safe harbor. Communicate changes in conditions with Branch Director. Once weather improves to a safe condition continue recovery operations.

Staff needs to coordinate w/ Wildlife for recovery. Wildlife Speacialist will collect dead wildlife after notification.

DO NOT DISCARD DEAD WILDLIFE

Wildlife Hotline #: (832) 368-5379

Communications

Name / Function	***Contact Details***
Marine - USCG OPS / Tactical	Marine - USCG OPS 81A
Marine - Hailing and Emergency / All	Marine - Hailing and Emergency 16
Marine - OMI-On-water OPS / Tactical	Marine - OMI-On-water OPS 67
Operations/Safety/Incident Command / Operations	Operations/Safety/Incident Command 15

Special Environmental Considerations

Report any oiled wildlife, wildlife in foam to the Wildlife Hotline 832-368-5379. Please take photo, and document location - DO NOT APPROACH.

Report any deceased fish or wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location. DO NOT DISPOSE.

Dispose contaminated PPE, debris, and sorbent materials in approved contaminated waste containers. DO NOT DISPOSE OF CONTAMINATED MATERIALS IN GENERAL TRASH.

Special Site-Specific Safety Considerations

Maintain walking surface awareness to prevent slips, trips and falls. Don PFD's when working within 3 ft of the waters edge, open water or onboard a vessel.

Wear appropriate PPE, communicate any unsafe situations to supervisor. Utilize stop work authority if necessary. Nobody gets hurt.

Ensure all personnel are equipped with Benzene detection. If Benzene is detected at levels higher than action level, evacuate the area, report to supervisor and Mike Gaudet (281-787-8256).

All equipment and personnel must be decontaminated prior to leaving the hot zone.

Action Levels for Benzene:

Less than 0.5ppm: No respiratory protection needed
Greater than 0.5 ppm - Don full face APR: Must change APR cartridges to prevent breakthrough every 4 hours.
Greater than 25.0 ppm - Supplied Air;

Report any LEL detection (delineate area).

Any monitoring data that exceeds action levels will be reported to the Monitoring Supervisor. Email: Air2@iterm.com
or
Phone: 832-493-8041

Radio Channel Information

Ch #	*Function*	*Channel Name/ Trunked Radio System Talkgroup*	*Assignment*	*Rx Freq N or W*	*Rx Tone/NAC*	*Tx Freq N or W*	*Tx Tone/NAC*	*Mode (A, D, or M)*	*Remarks*
14	Tactical	ITC - Fuel & Fork Lift							
05	Tactical	ITC - Environmental							
07	Tactical	ITC - Special Services							
81A	Tactical	Marine - USCG OPS		157.0250	None	Simplex		A	
21A	Tactical	Marine - RAT (Rapid Assessment Teams)		157.0500	None	Simplex		A	
16	All	Marine - Hailing and Emergency		156.8000	None	Simplex		A	
67	Tactical	Marine - OMI-On-water OPS		156.3750	None	Simplex		A	
Site 1 & 2	Command	ITC Trunking System	ICP - ITC (Admin Building)	Encrypted				D	
15	Operations	Operations/Safety/Incident Command							
1	Dispatch	CIMA							
2	Tactical	East/South - CIMA							
3	Tactical	North Div - CIMA							
4	Tactical	West Div (Water Supply) - CIMA							
5	Tactical	Safety (IH) - CIMA							

Special Radio Instructions

Medical Aid Stations

Name	*Location*	*Paramedic On Site*	*Phone*	*Radio*
Tank Farm: Safety Training Building	-95.09605 29.73362	☐		ITC Mandown Button
On Water: Staging Area - OMI River	-95.10154 29.78214	☒		
ICP: ICP	1030 Ethyl Road Pasadena, TX -95.16478 29.72436	☐	Ph1: 832-780-6700	
ICP: Deer Park Training Building	Deer Park, TX -95.12382 29.70523	☐		

Transportation (Ground and/or Air Ambulance Services)

Ambulance Service	*Location*	*Phone*	*Radio*	*Air*	*ALS*
Tank Farm: Deer Park Volunteer Fire Department	Deer Park, TX -95.12382 29.70523	Ph1: (281) 476-1511		☐	☐
On Water (Channel View): Channel View Fire Dept	Channel View, TX -95.11465 29.77606	Ph1: 911 / (281) 452-5782		☐	☐
On Water: Acadian Ambulance Supervisor 470	-95.10154 29.78214	Ph1: (832) 210-4279		☐	☐
On Water: Acadian Ambulance Staging Area - OMI River	-95.10104 29.78206	Ph1: (409) 833-3800		☐	☐
ICP: Pasadena Volunteer Fire Department	923 Shaw Ave Pasadena, TX -95.20231 29.71332	Ph1: (281) 457-6360		☐	☐

Hospitals

Hospital	*Location*	*Phone*	*Radio*	*Air Travel Time*	*Ground Travel Time*	*Trauma Center*	*Helipad*	*Burn Center*
Tank Farm: Altus Baytown Hospital	1626 W Baker Rd Baytown, TX -94.98169 29.77128	281-382-1627					☒	☐
Tank Farm: HCA-Bayshore Medical Center	4000 Spencer HWY Pasadena, TX -95.18378 29.66124	713-359-1060				II	☐	☐
Tank Farm: CHI St. Luke's Patients Medical Center	4600 East Sam Houston Parkway South Pasadena, TX -95.16227 29.64113	713-378-8994				II	☐	☐
On Water/ICP: Houston Healthcare Southeast	4000 Spencer Hwy Pasadena, TX 77504 -95.18378 29.66124	713-359-1440		15 min	15 min	III	☒	☐

Hospitals

Hospital	*Location*	*Phone*	*Radio*	*Air Travel Time*	*Ground Travel Time*	*Trauma Center*	*Helipad*	*Burn Center*
On Water/ICP: UTMB	3737 Red Bluff Rd #150 Pasadena, TX 77503 -95.15567 29.68583	409-772-2002		15 min	15 min	I	[x]	[x]
On Water/ICP: Houston Healthcare Clear Lake	500 W. Medical Center Blvd, Webster, TX 77598 Webster, TX 77598 -95.12773 29.5413	281-338-3708		15 min	30 min	II	[x]	[ ]
On Water/ICP: Houston Methodist Baytown	4401 Garth Road Baytown, TX 77521 -94.9796 29.76916	281-420-8851 281-420-8600		15 min	30 min		[x]	[ ]
On Water/ICP: Surgery Specialty Hospital of America-Southeast Houston	4301 B Vista Pasadena, TX 77504 -95.1779 29.65913	713-378-2068 713-378-3000		15 min	15 min	II	[ ]	[ ]
On Water/ICP: Advanced Diagnostic Hospital East	12950 East Freeway Ste.100 Houston, TX 77015 -95.20044 29.77054	903-240-5893		15 min	15 min		[ ]	[ ]

Special Medical Emergency Procedures

SDS available and copies made to send with ambulance.

Decontamination must take place prior to transport.

Helipad/air operations will take place on Independence Road immediately across from CIMA Incident Command Post.

Tank Farm:

Deliver First Aid if trained in accordance with your training.

Address is 2621 ITC Tidal Road Harris County, Texas.

Conduct immediate notifications through supervisor and Safety Officer via Chain of Command per ICS 202b Unified Command Critical Threshold Reporting Criteria for:

Injury or Death

OSHA/Greater than 1st Aid through Safety Officer

On Water:

Deliver First Aid if trained in accordance with your training.

1. Acadian Ambulance staged 01 Advanced Life Support Ambulance at Staging Area - OMI River; Address - River Terrace Park 16550 Market Street Channelview, TX 77530

2. Call Acadian Ambulance Dispatch at (409) 833-3800 to nofify Ambulance of incoming medical or trauma case

Conduct immediate notifications through supervisor and Safety Officer via Chain of Command per ICS 202b Unified Command Critical Threshold Reporting Criteria for:

Injury or Deathv

OSHA/Greater than 1st Aid through Safety Officer

Command Post:

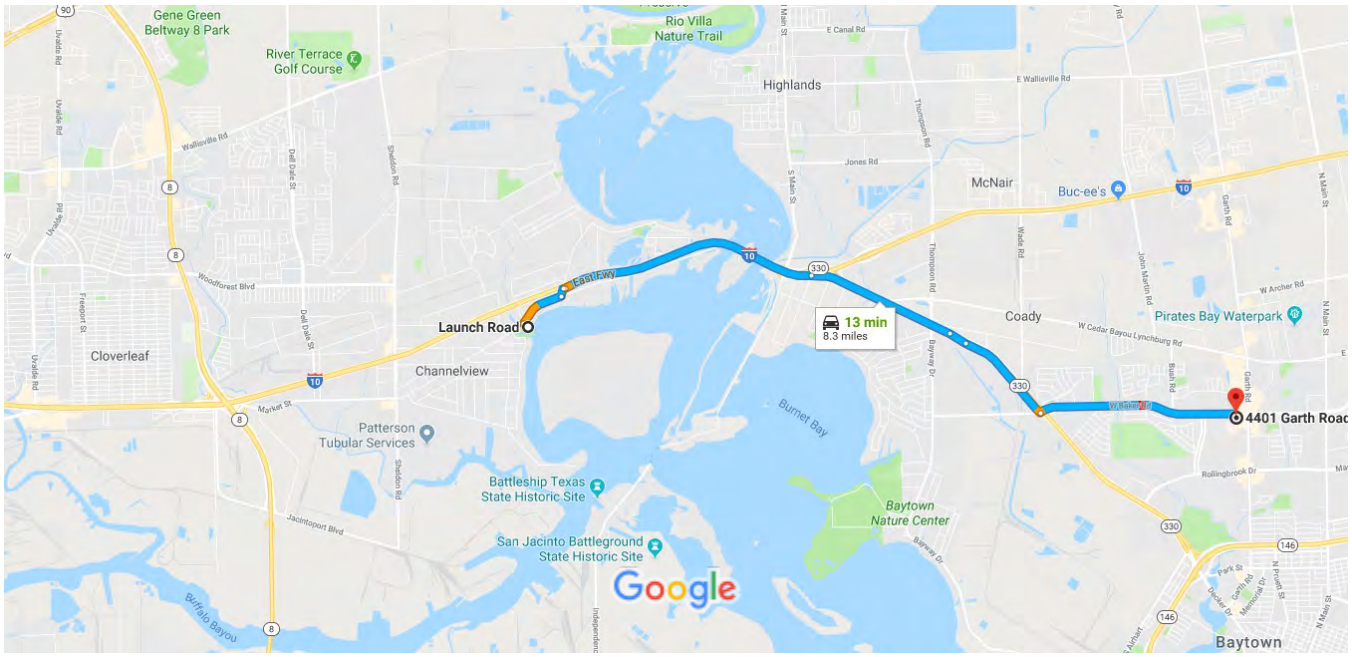
EMERGENCY MEDICAL PROCEDURES
In the event of a medical emergency provide the following information to the Communications Unit.

1. Declare the nature of the emergency.
    - Medical injury/illness?
    - If injury/illness, is it Life Threatening?
2. If Life Threatening, then request that the designated frequency be cleared for emergency traffic.
3. Identify the on-scene Point of Contact (POC) by Resource and Last name.
4. Identify nature of incident, number injured, patient assessment(s) and location (geographic and GPS coordinates).
5. Identify on-scene medical personnel by position and name.
6. Identify preferred method of patient transport.
7. Request any additional resources and/or equipment needed.
8. Document all information received and transmitted on the radio or phone.
9. Identify any changes in the on-scene Point of Contact or medical personnel as they occur.

Google Maps

Launch Rd, Channelview, TX 77530 to 4401 Garth Road, Baytown, TX

Drive 8.3 miles, 13 min



Map data ©2019 Google 1 mi

Launch Rd

Channelview, TX 77530

Take Market St to E Freeway Service Rd

2 min (0.6 mi)

1. Head northwest on Launch Rd toward Market St

331 ft

2. Turn right onto Market St

0.5 mi

3. Turn left onto River Rd

400 ft

Take I-10 E, TX-330 Spur S and W Baker Rd to your destination in Baytown

11 min (7.6 mi)

4. Turn right onto E Freeway Service Rd

131 ft

5. Use the left lane to take the ramp onto I-10 E

2.7 mi

6. Keep right at the fork to continue on TX-330 Spur S, follow signs for Baytown

1.6 mi

7. Take the Wade Rd/Baker Rd exit

0.2 mi

8. Merge onto Decker Dr

1.1 mi

9. Turn left onto W Baker Rd

Pass by Dairy Queen Store (on the right)

2.0 mi

10. Turn right

Destination will be on the left

15 s (121 ft)

4401 Garth Rd

Baytown, TX 77521

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

OPERATIONS - OVERALL

Operations Section Chief (Water)
McLelland, Reid

Operations Section Chief (Land)
Surguy, Robby

Operations Advisor
Wilson, Kelly
Pfannstiel, Bob

Asst. Safety Officer
Wilson, Christian (USCG)
Pounds, Kenneth (USCG)

Safety Officer
Collins, Ray

Deputy Operations Section Chief - On Water Ops
Riedel, Jim
Brescia, Nicolas (EPA)

Deputy Operations Section Chief - Tank Farm Operat
Kunh, Karl
Burditt, John
Brescia, Nicolas (EPA)

ICS Technical Specialist
McConaughey, Brian
Lumpkin, Kyle

Recovery & Protection Branch Director
Lyons, Eric
Nichols, Freddie
Shamilov, Rafael (USCG)
Robertson, David (EPA)

Recovery & Protection Group Supervisor
Babin, Everette
Livingston, Gregory (USCG)

Division A
Goins, Derek (AMPOL)
Ward, Taylor (USCG)
Smith, Charles (USCG)

Division B
Landry, Ashton (AMPOL)
Weigand, Noah (USCG)

Division C
Donnelly, Rowdy (AMPOL)
Cochrane, Walter (AMPOL)
Bradway, Richard (USCG)

Wildlife Branch Director
Biggs, Heather

Deputy Wildlife Branch Director
Murgatroyd, Rhonda

Division D
Bourque, Delven (AMPOL)
Ceccarini, Alexander (USCG)

Division E
Jackson, Renyiell (AMPOL)
Fisher, Bray (EPA)

Protection Strategies Group
Dalfrey, Chad (AMPOL)

On-Water Air Monitoring Group Supervisor
Shunda, Alexander (USCG)

On Water Decon Group
Link, Thomas (USCG)

Waste Group
Segura, Tyler

Air Ops Branch Director
Berg, Nolan
Breedlove, Karl (Advisor)

sUAS Team 1
Land, Cassity

sUAS Team 2
Coleman, Bob

sUAS Team 3
Barrett, Blake

Tank Farm Operations Branch
Holley, Carl

Fire Suppression Group
Williams, Dwight

Firewater Containment Task Force
Walker, Derek

Foam Application Task Force
Nawrocki, Ryan

Tank Farm Recovery Group
Thomas, Harold

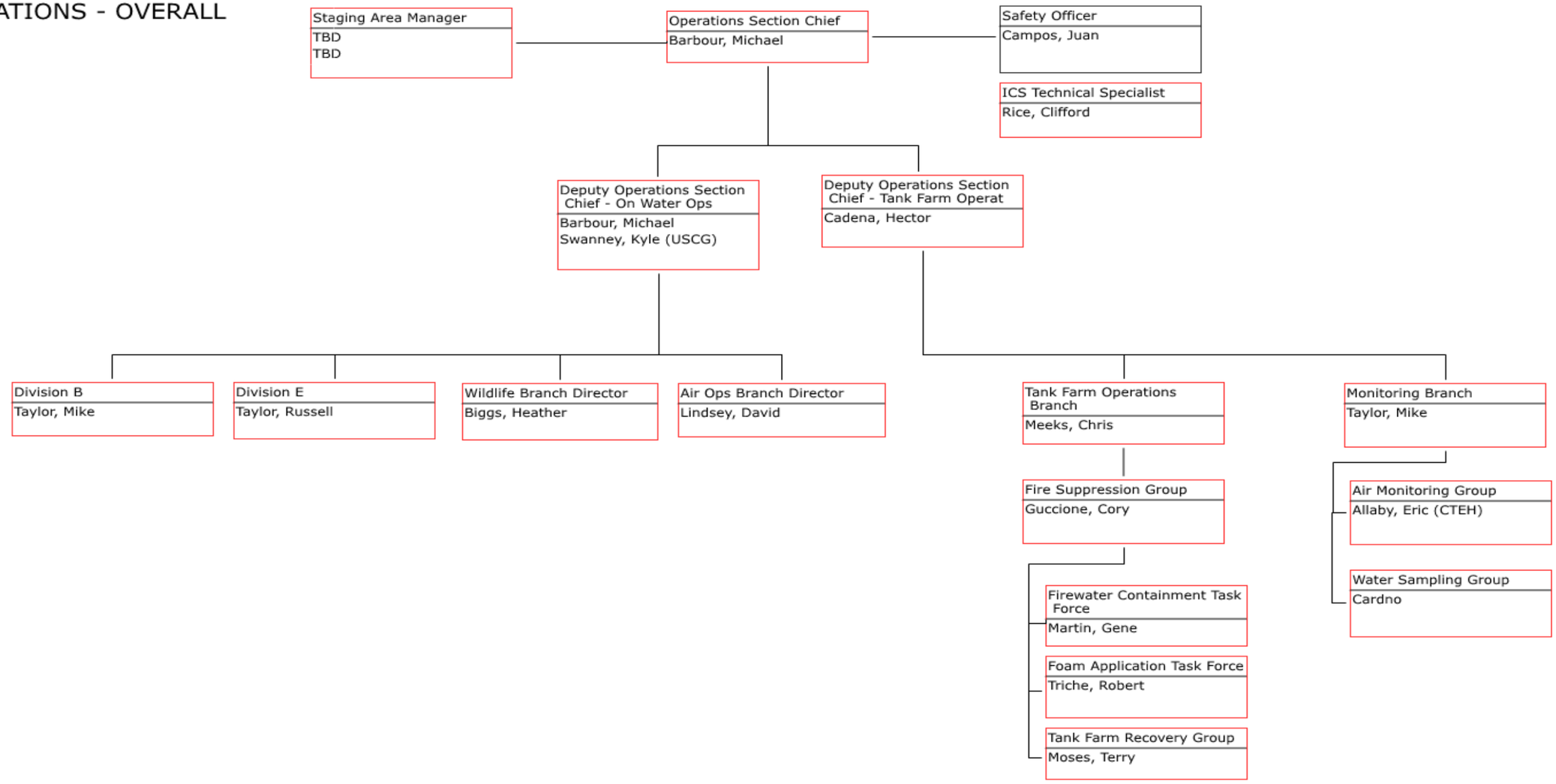
Monitoring Branch
Gaudet, Michael

Air Monitoring Group
Langley, Justin

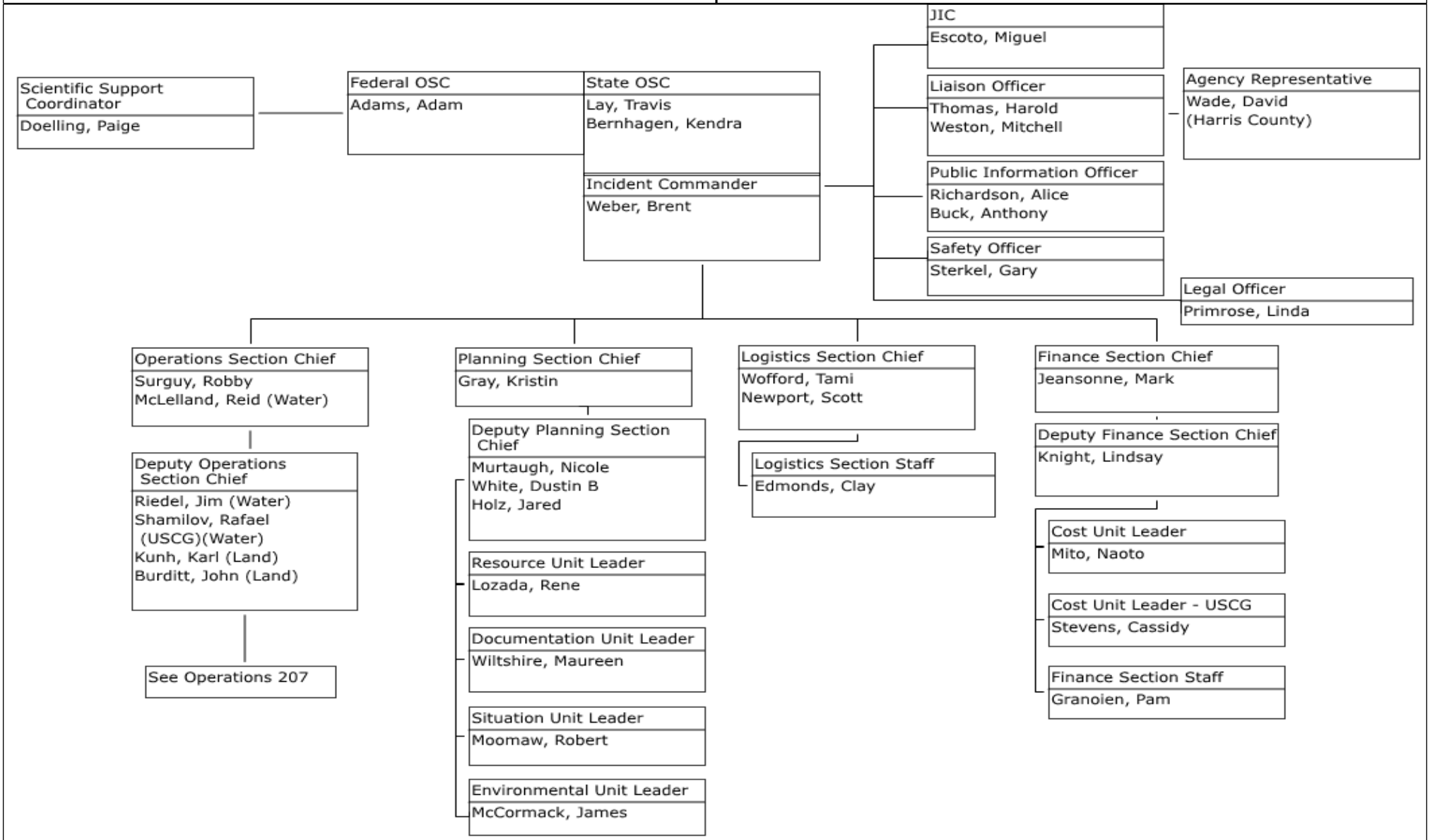
Water Sampling Group
Kubitz, Jody

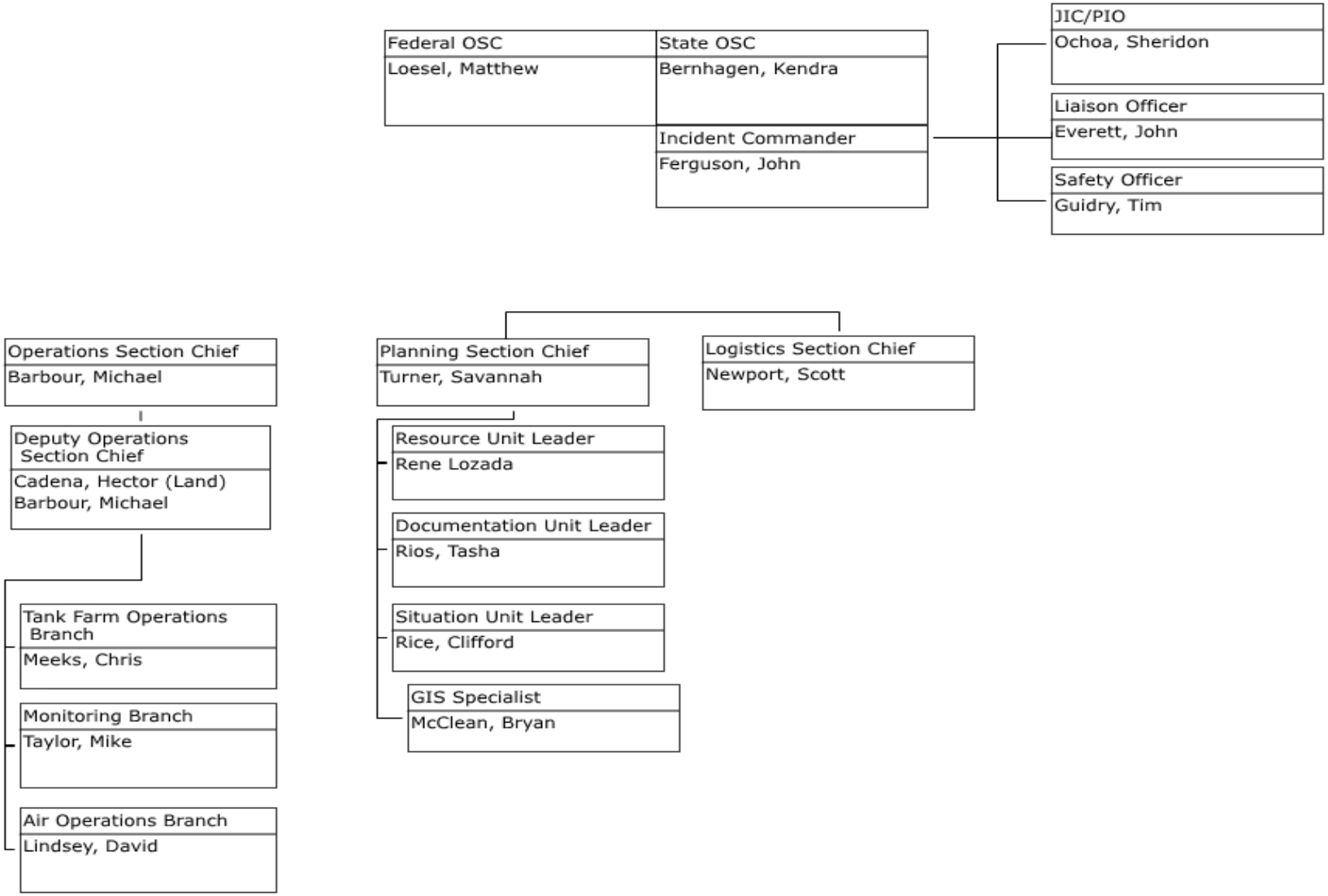
© TRG

OPERATIONS - OVERALL



© TRG


Scientific Support Coordinator
Doelling, Paige
Federal OSC
Adams, Adam
State OSC
Lay, Travis
Bernhagen, Kendra
Incident Commander
Weber, Brent
JIC
Escoto, Miguel
Liaison Officer
Thomas, Harold
Weston, Mitchell
Agency Representative
Wade, David
(Harris County)
Public Information Officer
Richardson, Alice
Buck, Anthony
Safety Officer
Sterkel, Gary
Legal Officer
Primrose, Linda
Operations Section Chief
Surguy, Robby
McLelland, Reid (Water)
Deputy Operations Section Chief
Riedel, Jim (Water)
Shamilov, Rafael (USCG)(Water)
Kunh, Karl (Land)
Burditt, John (Land)
See Operations 207
Planning Section Chief
Gray, Kristin
Deputy Planning Section Chief
Murtaugh, Nicole
White, Dustin B
Holz, Jared
Resource Unit Leader
Lozada, Rene
Documentation Unit Leader
Wiltshire, Maureen
Situation Unit Leader
Moomaw, Robert
Environmental Unit Leader
McCormack, James
Logistics Section Chief
Wofford, Tami
Newport, Scott
Logistics Section Staff
Edmonds, Clay
Finance Section Chief
Jeansonne, Mark
Deputy Finance Section Chief
Knight, Lindsay
Cost Unit Leader
Mito, Naoto
Cost Unit Leader - USCG
Stevens, Cassidy
Finance Section Staff
Granoien, Pam


Federal OSC
Loesel, Matthew
State OSC
Bernhagen, Kendra
Incident Commander
Ferguson, John
JIC/PIO
Ochoa, Sheridon
Liaison Officer
Everett, John
Safety Officer
Guidry, Tim
Operations Section Chief
Barbour, Michael
Deputy Operations Section Chief
Cadena, Hector (Land)
Barbour, Michael
Tank Farm Operations Branch
Meeks, Chris
Monitoring Branch
Taylor, Mike
Air Operations Branch
Lindsey, David
Planning Section Chief
Turner, Savannah
Resource Unit Leader
Rene Lozada
Documentation Unit Leader
Rios, Tasha
Situation Unit Leader
Rice, Clifford
GIS Specialist
McClean, Bryan
Logistics Section Chief
Newport, Scott

© TRG