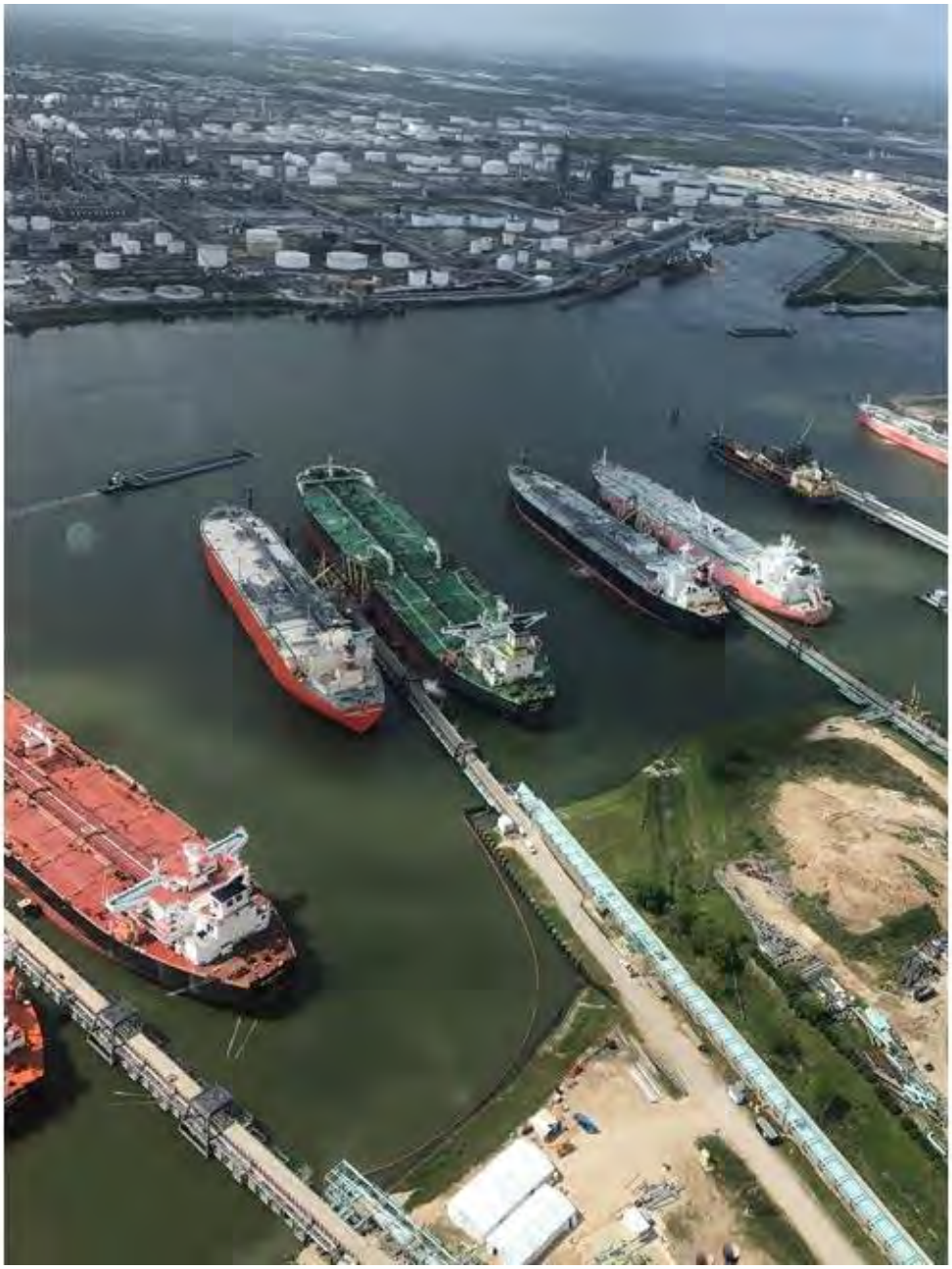
Approved By

Federal OSC: _____ _____ _____

State OSC: _____ _____ _____

Incident Commander: _____ _____ _____

Incident Action Plan



9966680

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Objective(s)
Ensure the Safety of the Public and Response Personnel.
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 and Investigation Operations 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.
Ensure the proper decontamination of all impacted vessels and response resources.
Track and dispose of all collected material/waste in accordance with approved plans.
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.

Incident Action Plan Components

Priorities
People (Life Safety)
Incident Stabilization
Property Preservation
Transportation Infrastructure
Society Restoration/Business Continuity
Environment Protection
Information Management and Situational Awareness
Investigation of Cause

Limitations and Constraints

- Weather Conditions
- Air Monitoring Exceedances
- Location of the Incident
- Availability of Resources
- Multiple Resource Ordering Processes
- Permits
- Access to Shoreline (Private Lands)
- Spilled Material Characteristics (recovery/monitoring/PPE requirements)
- Public Health
- Community/Media Perception
- Evidence Preservation
- Disposal of Waste
- Crew Rest Requirements
- Interagency Communications
- Statuatory Authorities
- Adverse Economic and Environmental Impacts
- Security and Perimeters
- Extent of Contamination
- Affected Population (includes children, individuals with disabilities and others with access and functional needs, those from diverse backgrounds, and/or people with language barriers)

Key Decisions and Procedures

Key Decisions

- Name of Incident = 2nd 80's Fire
- Overall Response Organization - Staffing
  - Unified Command = ITC, EPA, TCEQ
  - Operations Section Chief = ITC
    - Deputy Operations Section Chief(s): ITC, EPA
  - Planning Section Chief = ITC
    - Deputy Planning Section Chief(s): ITC
  - Logistics Section Chief = ITC
    - Deputy Logistics Section Chief: ITC
  - Finance Section Chief = ITC
    - Deputy Finance Section Chief: ITC
  - Safety Officer = ITC
  - Wildlife Branch = TPWD / WRS
  - Public Information Officer = ITC
  - Liaison Officer = ITC
    - Asst. Liaison = ITC
  - Environmental Unit Leader = ITC
  - Joint Information Center (JIC) Manager = ITC
  - NRDA

Note: section chiefs have full authority on filling positions; however, ensure agencies are integrated into the organization

- Location of Incident Command Post and Joint Information Center = 1030 Ethyl Rd., Pasadena, TX.
- Operational Period & work hours = **72 hours** with daily shift changes at 06:00 and 18:00.
- All external releases of information should be approved by UC 30 mintues prior to release.
- ITC Cares hotline number established as (346) 263-9766
- Air Monitoring readings will be provided to Deer Park, Pasadena, and La Porte and posted to the ITC portal daily but shall be provided to EPA and TCEQ two hours prior to public release.
- The Central Texas Area Contingency Plan, Regional Response Plan, and Geographic Response Plans (GRPs) will be used, as appropriate in planning operations.
- Incident documentation shall be maintained in accordance with 40CFR300.315.
- All responders will use the Incident Command System structure according to the National Incident Management System for communications and management.

OTHER KEY DECISIONS:

- Manage information flow to media. IC/UC shall approve all Press Releases.
- Manage sensitive and classified information in accordance with all requirements.
- A member of the IC/UC shall be present in the ICP at all times.

Stakeholders: Lyondell, Geo, Clean Harbors, DOW, Vopak, Total, Ineos, Shell, Monument Inn, San Jacinto Battlefield Park, Deer Park EOC, Texas Molecular, OXY, Lubrizol, Trimax, Langer Transport, Harris County Precinct 2, Coastal Cargo Group, USCG, ExxonMobil, Teichman Group, Port of Houston, Kirby, Praxair, Cargil, Oil State, La Porte LEPC

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

Injury or Death (Greater than First Aid and any Hospital Transports [through Safety Officer])

Air monitoring levels exceeding action levels (1ppm benzene) outside of warm zone (community/industrial areas): Email: Air2@iterm.com / Phone: 832-493-8041

Any order of Shelter in Place by local municipalitieis and industrial partners

Public health impacts

Loss of major tactical resources impacting response operations

Loss or breach of containment / boom

New Shoreline oiling or impacts and impacts to sensitive areas beyond protection

Any breach in security related to response (staging area, hot zones, ICP)

Any unaccounted personnel in the field

Any unexpected personnel status changes impacting long-term availability

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

Critical stakeholder issues and concerns / agency concerns

New Maritime transportation impacts

Media interview requests, Adverse external influences, including social media, Political activities or actions that may negatively impact the effectiveness of the response

Unplanned VIP visits

Critical Information Reporting Criteria (Daily reporting requirements)

Change in current or forcasted weather, limiting response operations

Confirmed wildlife impacts

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

Significant change in operational efficiency

Environmental impact (elevated readings, wildlife impact, etc) at, or in proximity to, National Priority List sites (San Jacinito River Waste Pits, Patrick Bayou)

Present Conditions

Weather Conditions as of 04/13/2019 14:03

deer park station id: MID_UR113

Temperature:	74° Fahrenheit	***Feels Like:***	74° Fahrenheit
Wind Speed:	18 knot(s)	***Dew Point:***	° Fahrenheit
Wind Direction (from):	S	***Pressure:***	psi
Visibility:	mile(s)	***UV Index:***	
Humidity (%):		***Sunrise:***	06:55
:	N/A	***Sunset:***	19:46
:	Mostly Cloudy with Light Rain		
Current Speed:		***Wave Height:***	feet
Current Direction (to):		***Wave Direction:***	S
Water Temperature:	° Fahrenheit	***Swell Interval:***	feet

Forecast Date				
Sat 04/13/2019	81 F	**Mostly Cloudy with Thunderstorms Likely** **Chance of Precipitation(%):** 58% **Wind:** 17 mph	51 F	**Mostly Clear** **Chance of Precipitation(%):** 9% **Wind:** 18 mph
Sun 04/14/2019	72 F	**Sunny** **Chance of Precipitation(%):** 6% **Wind:** 16 mph	54 F	**Clear** **Chance of Precipitation(%):** 0% **Wind:** 4 mph
Mon 04/15/2019	76 F	**Sunny** **Chance of Precipitation(%):** 0% **Wind:** 9 mph	62 F	**Mostly Clear** **Chance of Precipitation(%):** 0% **Wind:** 10 mph
Tue 04/16/2019	80 F	**Partly Cloudy** **Chance of Precipitation(%):** 9% **Wind:** 13 mph	70 F	**Mostly Cloudy with Scattered Storms** **Chance of Precipitation(%):** 26% **Wind:** 12 mph
Wed 04/17/2019	81 F	**Mostly Cloudy with Thunderstorms Likely** **Chance of Precipitation(%):** 60% **Wind:** 15 mph	66 F	**Mostly Cloudy with Scattered Storms** **Chance of Precipitation(%):** 44% **Wind:** 11 mph

Tides

	Tide	*Height*	*UOM*	*Time*	*Tide Station Location*
Sat 04/13/2019	Low	0.199	feet	10:22	Lynchburg Landing, San Jacinto River, Tx Us
	High	1.757	feet	18:53	Lynchburg Landing, San Jacinto River, Tx Us
Sun 04/14/2019	Low	0.225	feet	11:30	Lynchburg Landing, San Jacinto River, Tx Us
	High	1.732	feet	19:39	Lynchburg Landing, San Jacinto River, Tx Us
Mon 04/15/2019	Low	0.294	feet	12:34	Lynchburg Landing, San Jacinto River, Tx Us
	High	1.671	feet	20:11	Lynchburg Landing, San Jacinto River, Tx Us
Tue 04/16/2019	Low	1.118	feet	02:13	Lynchburg Landing, San Jacinto River, Tx Us
	High	1.319	feet	06:29	Lynchburg Landing, San Jacinto River, Tx Us
	Low	0.417	feet	13:35	Lynchburg Landing, San Jacinto River, Tx Us
	High	1.584	feet	20:32	Lynchburg Landing, San Jacinto River, Tx Us
Wed 04/17/2019	Low	0.937	feet	02:32	Lynchburg Landing, San Jacinto River, Tx Us
	High	1.434	feet	08:05	Lynchburg Landing, San Jacinto River, Tx Us
	Low	0.596	feet	14:32	Lynchburg Landing, San Jacinto River, Tx Us
	High	1.492	feet	20:45	Lynchburg Landing, San Jacinto River, Tx Us

Operations Personnel

Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Antu, Jason	ITC	281-786-9770	Day Shift
Operations Section Chief	Bargar, Michael	ITC	832-563-7401	Night Shift
Deputy Operations Section Chief (On Land)	Jacobson, Jeff	ITC	713-516-6916	Day Shift
Deputy Operations Section Chief (On Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (EPA)	Moore, Gary	Environmental Protection Agency	(214) 789-1627	Day Shift
Recovery & Protection Branch Director	Lyons, Eric	AMPOL - American Pollution Control	337-519-8070	Day Shift
Recovery & Protection Branch Director	Nichols, Freddie	OMI	501-410-2212	Day Shift
Recovery & Protection Branch Director	Waldmeier, Joshua	USCG	337-853-7077	Day Shift
Recovery & Protection Branch Director	Robertson, David	Environmental Protection Agency	469-394-0177	Day Shift
Recovery & Protection Branch Director	Swanney, Kyle	USCG	832-256-7210	Night Shift
Division A Supervisor	Goins, Derek	AMPOL - American Pollution Control	504 982 5046	Day Shift

Resources Required

Area Of Operation	Resource Kind	Description	Quantity	Size
Division A	Pumps	Pumps	4	
Division A	Boom	Boom	5300	18 inch (es)
Division A	Foilex Skimmer	Foilex Skimmer	2	
Division A	Drum Skimmer	Drum Skimmer	1	
Division A	Vacuum Truck 130 bbl	Vacuum Truck 130 bbl	3	
Division A	Shallow Water Barge (SWB)	Shallow Water Barge (SWB)	2	
Division A	Spill Tech	Spill Tech	30	
Division A	Jon Boat	Jon Boat	2	
Division A	Small Capacity Skimming Vessel	Marco Skimmer	3	
Division A	Fast Response Vessel	Fast Response Vessel	3	
Division A	Work Barge	Barge Boat	6	
Division A	Boat Operator	Boat Operator	14	

Assignments

As directed, conduct booming and recovery operations in Division A.
Assess and prioritize boom placements as recovery operations continue.
Deploy and maintain sorbent boom inside of existing hard boom along shoreline areas.
Conduct low pressure high volume water washing along shorelines as directed.

PRIORITY AREAS:

-Patrick Bayou-
Line existing hard boom placements with sorbent boom.
Conduct low pressure high volume water washing along shorelines as directed.
Maintain boom at mouth of Patrick Bayou, recover product inside bayou near Shell Deer Park outfall.
Deploy and maintain lateral sorbent boom upstream across Patricks Bayou.
Assess booming strategy from morning overflight and weather conditions.
Potential for stakeholders to flush bayou with monitors.

-Shell Dock-
Deploy and maintain sorbent boom as directed.
Conduct low pressure high volume water washing along shorelines as directed.

-Enterprise Dock-
Deploy and maintain sorbent boom as directed.
Conduct low pressure high volume water washing along shorelines as directed.

-Stolthaven Docks-
Deploy and maintain sorbent boom as directed.
Conduct low pressure high volume water washing along shorelines as directed.

_____
Marcos will be utilized to recover spilled material. Recovered material will be offloaded into the Texas Responder.
During daytime operations, shallow water barges will pump off into the Texas Responder.

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

Hot shot teams will support on water recovery operations as needed.

Material collected will be managed in accordance with an approved Waste Management Plan.

Air monitoring support of on water operations will be conducted as per the Air Monitoring Plan.

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 wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location.

Dead Fish Collection Protocol:
With the proper PPE (tyvek, nitrile gloves, eye protection, etc.) collect dead fish and lay them on the shore on a Visqueen or some other lining. Take pictures of the individual fish (or batch of fish) with a scale ruler (or similar item) in the photo if possible. Provide the # of dead fish per day to the Wildlife Hotline.
If the fish cannot be collected due to skimming operations please note the amount of fish collected, take pictures and document numbers of dead fish per day including collector name and contact information.

If you are aware of undocumented fish counts please relay the information to the Wildlife Number.

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.

Ensure air monitoring is conducted frequently in the vicinity of work activity. If Benzene is detected at levels higher than 0.5 ppm, evacuate or don APR.

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

Report any LEL detection (delineate area).

Prior to operations, establish/maintain communications with facility FSO or Person in Charge (or equivalent). Ensure facility emergency procedures are understood and have identified their closest shelter in place locations.

Prior to any piece of equipment or person entering under or in a pier/dock manway, conduct air monitoring to rule out explosive and toxic environment.

20190402 Division A Grid Map

Operations Personnel

Position	***Name***	***Affiliation***	***Contact Number(s)***	***Work Shift***
Operations Section Chief	Antu, Jason	ITC	281-786-9770	Day Shift
Operations Section Chief	Bargar, Michael	ITC	832-563-7401	Night Shift
Deputy Operations Section Chief (On Land)	Jacobson, Jeff	ITC	713-516-6916	Day Shift
Deputy Operations Section Chief (On Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (EPA)	Moore, Gary	Environmental Protection Agency	(214) 789-1627	Day Shift
Recovery & Protection Branch Director	Lyons, Eric	AMPOL - American Pollution Control	337-519-8070	Day Shift
Recovery & Protection Branch Director	Nichols, Freddie	OMI	501-410-2212	Day Shift
Recovery & Protection Branch Director	Waldmeier, Joshua	USCG	337-853-7077	Day Shift
Recovery & Protection Branch Director	Robertson, David	Environmental Protection Agency	469-394-0177	Day Shift
Recovery & Protection Branch Director	Swanney, Kyle	USCG	832-256-7210	Night Shift
Division B Supervisor	Landry, Ashton	AMPOL - American Pollution Control	337-339-1777	Day Shift
Division B Supervisor	Taylor, Mike	ITC	281-667-1771	Night Shift

Resources Required

Area Of Operation	***Resource Kind***	***Description***	***Quantity***	***Size***
Division B	Work Boat	Work Boat	6	
Division B	Pumps	Pumps	5	
Division B	Boom	Boom	40100	18 inch (es)
Division B	Offshore Boom	Offshore Boom	3740	inch (es)
Division B	Foilex Skimmer	Foilex Skimmer	2	
Division B	Weir Skimmer	Weir Skimmer	27	
Division B	Drum Skimmer	Drum Skimmer	8	
Division B	Vacuum Truck 130 bbl	Vacuum Truck 130 bbl	11	
Division B	Vacuum Truck 70 bbl	Vacuum Truck 70 bbl	9	
Division B	Shallow Water Barge (SWB)	Shallow Water Barge (SWB)	8	
Division B	Storage Barge (Inland)	Storage Barge (Inland)	4	
Division B	OSRV	Texas Responder	1	
Division B	Spill Tech	Spill Tech	117	
Division B	Jon Boat	Jon Boat	3	
Division B	Small Capacity Skimming Vessel	Marco Skimmer	11	
Division B	42" Harbor Boom	42" Harbor Boom	9500	42 inch (es)
Division B	Fast Response Vessel	Fast Response Vessel	12	
Division B	OSRB	Clean Channels Barge	1	

Resources Required

Area Of Operation	Resource Kind	Description	Quantity	Size
Division B	Work Barge	Barge Boat	14	
Division B	Boat Operator	Boat Operator	46	

Assignments

In coordination with available 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.
Deploy and maintain sorbent boom inside of existing hard boom along shoreline areas.
Conduct low pressure high volume water washing along shorelines as directed.
Monitor protection boom placements and adjust as necessary based on changing weather and water conditions.

PRIORITY AREAS:

-Drainage ditch east of Patrick Bayou-
Deploy and maintain sorbent boom as directed.
Conduct low pressure high volume water washing along shorelines as directed.
Maintain boom at mouth of ditch.

-Shoreline from Patrick's Bayou to Tucker's Bayou-
Deploy and maintain sorbent boom as directed.
Conduct low pressure high volume water washing along shorelines as directed.
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)-
Deploy and maintain sorbent boom inside of existing hard boom along shoreline areas.
Conduct low pressure high volume water washing along shorelines as directed.
Resources will concentrate on the mouth of Tucker Bayou - coordinate flushing operations with Division E as needed.
Recover product utilizing marco skimmers, and drum skimmers.
All skimming operations will be during daylight hours ONLY.

-Dock 1-
Adjust and maintain boom configuration.
Utilize on water skimming capabilities to recover spilled material in docking area near mouth of Tucker Bayou.
Conduct flushing operations using fire boat to mobilize spilled material through dock area for containment and recovery using foilex skimmers, drum skimmers and vacuum trucks at ITC Dock as required.
Deploy and maintain sorbent boom for sheening as required.
Vacuum trucks will offload into frac tanks as needed.

-VOPAK Docks-
Deploy and maintain sorbent boom inside of existing hard boom along shoreline areas.
Conduct low pressure high volume water washing along shorelines as directed.

-Shoreline East/West of Battleship Texas-
Maintain boom along shoreline. Continue on water recovery efforts using shallow water barges and marco skimmers as necessary.
Deploy and maintain sorbent boom inside of existing hard boom along shoreline areas.
Conduct low pressure high volume water washing along shorelines as directed.

-North Bank of Buffalo Bayou:
-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.
Deploy and maintain sorbent boom inside of existing hard boom along shoreline areas.
Conduct low pressure high volume water washing along shorelines as directed.

-Houston Fuel Oils (HFO)/Oils States Slip -
Maintain hard boom and recover debris.

Deploy and maintain sorbent boom inside of existing hard boom along shoreline areas.
Conduct low pressure high volume water washing along shorelines as directed.

-Jacintoport-
Continue on water recovery operations using the Texas Responder, marco skimmers, SBS(s) and storage barges with support vessels.
Ensure containment of product and position skimming assets to maximize effectiveness of recovery efforts.
Assess effectiveness for potential to conduct flushing operations for containment/recovery of product around docks in Jacintoport using tugs, fire boat and/or pumps as necessary.
Condense boom placements to allow for ship traffic and use of docks at mouth of Jacintoport as needed.

The Texas Responder will be positioned in Jacintoport dock #1 and barge 29120 will be positioned at the ITC dock #7 to offload into tank as designated by ITC.

_____
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.

Hot shot teams will support on water recovery operations as needed.

Material collected will be managed in accordance with an approved Waste Management Plan.

Air monitoring support of on water operations will be conducted as per the Air Monitoring Plan.

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

Dock 4 area and Skimmer Operations:

With the proper PPE (tyvek, nitrile gloves, eye protection, etc.) collect dead fish and lay them on the shore on a Visqueen or some other lining. Take pictures of the individual fish (or batch of fish) with a scale ruler (or similar item) in the photo if possible. Provide the # of dead fish per day to the Wildlife Hotline 832-368-5379.

If the fish cannot be collected due to skimming operations please note the amount of fish witnessed, take pictures and document numbers of dead fish per day including collector name and contact information.
If you are aware of undocumented fish counts please relay the information to the Wildlife Number.

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 wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location.

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.

Ensure air monitoring is conducted frequently in the vicinity of work activity. If Benzene is detected at levels higher than 0.5 ppm, evacuate or don APR.

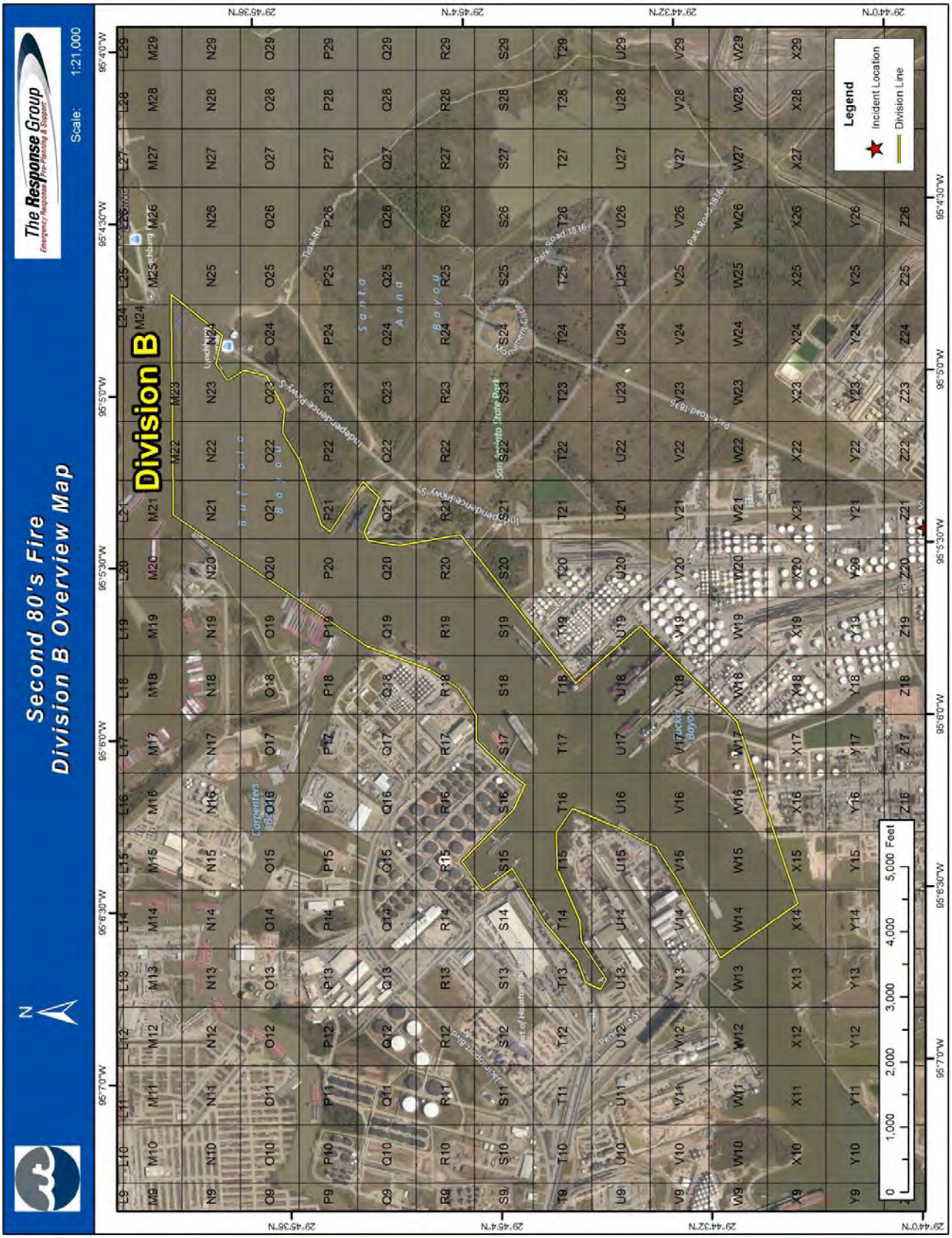
Equipment and personnel must be decontaminated prior to leaving the hot zone.

Report any LEL detection (delineate area).

Prior to operations, establish/maintain communications with facility FSO or Person in Charge (or equivalent). Ensure facility emergency procedures are understood and have identified their closest shelter in place locations.

Prior to any piece of equipment or person entering under or in a pier/dock manway, conduct air monitoring to rule out explosive and toxic environment.

20190402 Division B Grid Map



Operations Personnel

Position	***Name***	***Affiliation***	***Contact Number(s)***	***Work Shift***
Operations Section Chief	Antu, Jason	ITC	281-786-9770	Day Shift
Operations Section Chief	Bargar, Michael	ITC	832-563-7401	Night Shift
Deputy Operations Section Chief (On Land)	Jacobson, Jeff	ITC	713-516-6916	Day Shift
Deputy Operations Section Chief (On Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (EPA)	Moore, Gary	Environmental Protection Agency	(214) 789-1627	Day Shift
Recovery & Protection Branch Director	Lyons, Eric	AMPOL - American Pollution Control	337-519-8070	Day Shift
Recovery & Protection Branch Director	Nichols, Freddie	OMI	501-410-2212	Day Shift
Recovery & Protection Branch Director	Waldmeier, Joshua	USCG	337-853-7077	Day Shift
Recovery & Protection Branch Director	Robertson, David	Environmental Protection Agency	469-394-0177	Day Shift
Recovery & Protection Branch Director	Swanney, Kyle	USCG	832-256-7210	Night 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

Resources Required

Area Of Operation	***Resource Kind***	***Description***	***Quantity***	***Size***
Division C	Pumps	Pumps	4	
Division C	Boom	Boom	32600	18 inch (es)
Division C	Drum Skimmer	Drum Skimmer	4	
Division C	Vacuum Truck 130 bbl	Vacuum Truck 130 bbl	4	
Division C	Vacuum Truck 70 bbl	Vacuum Truck 70 bbl	1	
Division C	Spill Tech	Spill Tech	36	
Division C	Jon Boat	Jon Boat	2	
Division C	Small Capacity Skimming Vessel	Marco Skimmer	6	
Division C	42" Harbor Boom	42" Harbor Boom	5000	42 inch (es)
Division C	Fast Response Vessel	Fast Response Vessel	4	
Division C	OSRB	Clean Channels Barge	1	
Division C	Work Barge	Barge Boat	5	
Division C	Boat Operator	Boat Operator	17	
Kirby Decon TF	Decon Personnel	Decon Personnel	7	
Kirby Decon TF	Hot Water Pressure Washer	Hot Water Pressure Washer	1	
Kirby Decon TF	Manpower: Supervisor	Barge Wash Supervisor	1	

Assignments

From West to East:
Deploy and maintain sorbent boom inside of existing hard boom along shoreline areas.
Conduct low pressure high volume water washing along shorelines as directed.

PRIORITY AREAS:

-Carpenter's Bayou-
Deploy and maintain sorbent boom inside of existing hard boom along shoreline areas.
Conduct low pressure high volume water washing along shorelines as directed.
Recover product with sorbent materials inside the bayou as directed.
Coordinate with Decon Group at Kirby facility on north bank of the mouth of the bayou for barge decon operations.

-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.
Deploy and maintain sorbent boom inside of existing hard boom along shoreline areas.
Conduct low pressure high volume water washing along shorelines as directed.
Coordinate with Decon Group at mouth of Old River for barge decon operations.

-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 barges and vacuum trucks. Use of this storage barge will be shared between Divisions C & D as directed.

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

Material collected will be managed in accordance with an approved Waste Management Plan.

Utilize 30,000 bbl tank barge for recovery storage capacity.

Monitor boom placements and adjust as necessary based on changing weather and water conditions.

Hot shot teams will support on water recovery operations as needed.

Air monitoring support of on water operations will be conducted as per the Air Monitoring Plan.

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 wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location.

Dead Fish Collection Protocol:
With the proper PPE (tyvek, nitrile gloves, eye protection, etc.) collect dead fish and lay them on the shore on a Visqueen or some other lining. Take pictures of the individual fish (or batch of fish) with a scale ruler (or similar item) in the photo if possible. Provide the # of dead fish per day to the Wildlife Hotline.
If the fish cannot be collected due to skimming operations, please note the amount of fish collected, take pictures and document numbers of dead fish per day including collector name and contact information.
If you are aware of undocumented fish counts please relay the information to the Wildlife Number.

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.

Ensure air monitoring is conducted frequently in the vicinity of work activity. If Benzene is detected at levels higher than 0.5 ppm, evacuate or don APR.

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

Report any LEL detection (delineate area).

Prior to operations, establish/maintain communications with facility FSO or Person in Charge (or equivalent). Ensure facility emergency procedures are understood and have identified their closest shelter in place locations.

Prior to any piece of equipment or person entering under or in a pier/dock manway, conduct air monitoring to rule out explosive and toxic environment.

ICS 204 - Assignment List

Division: Division C

Incident Name: 2nd 80's Fire

Period: Period 15 [04/14/2019 07:00 - 04/17/2019 07:00]

20190402 Division C Grid Map

© TRG

Operations Personnel

Position	***Name***	***Affiliation***	***Contact Number(s)***	***Work Shift***
Operations Section Chief	Antu, Jason	ITC	281-786-9770	Day Shift
Operations Section Chief	Bargar, Michael	ITC	832-563-7401	Night Shift
Deputy Operations Section Chief (On Land)	Jacobson, Jeff	ITC	713-516-6916	Day Shift
Deputy Operations Section Chief (On Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (EPA)	Moore, Gary	Environmental Protection Agency	(214) 789-1627	Day Shift
Recovery & Protection Branch Director	Lyons, Eric	AMPOL - American Pollution Control	337-519-8070	Day Shift
Recovery & Protection Branch Director	Nichols, Freddie	OMI	501-410-2212	Day Shift
Recovery & Protection Branch Director	Waldmeier, Joshua	USCG	337-853-7077	Day Shift
Recovery & Protection Branch Director	Robertson, David	Environmental Protection Agency	469-394-0177	Day Shift
Recovery & Protection Branch Director	Swanney, Kyle	USCG	832-256-7210	Night Shift
Division D Supervisor	Bourque, Delven	AMPOL - American Pollution Control	337-519-6219	Day Shift

Resources Required

Area Of Operation	***Resource Kind***	***Description***	***Quantity***	***Size***
Division D	Pumps	Pumps	4	
Division D	Boom	Boom	13400	18 inch (es)
Division D	Weir Skimmer	Weir Skimmer	1	
Division D	Vacuum Truck 130 bbl	Vacuum Truck 130 bbl	2	
Division D	Vacuum Truck 70 bbl	Vacuum Truck 70 bbl	2	
Division D	Storage Barge (Inland)	Storage Barge (Inland)	1	
Division D	Spill Tech	Spill Tech	30	
Division D	Small Capacity Skimming Vessel	Marco Skimmer	3	
Division D	Fast Response Vessel	Fast Response Vessel	7	
Division D	Work Barge	Barge Boat	5	
Division D	Boat Operator	Boat Operator	15	

Assignments

From North to South on west bank of San Jacinto River:
Deploy and maintain sorbent boom inside of existing hard boom along shoreline areas.
Conduct low pressure high volume water washing along shorelines as directed.

PRIORITY AREAS:

-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
Deploy and maintain sorbent boom inside of existing hard boom along shoreline areas.
Conduct low pressure high volume water washing along shorelines as directed.

-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.
Evaluate shoreside access for recovery with weir skimmers and vacuum trucks.
Potential to flush product with fire boat and mobilize to skimmers/vacuum trucks.
Conduct recovery operations utilizing drum skimmers, and barge boats. These resources will concentrate in Peggy Lake, weather permitting.

-Lynchburg Ferry to Alexander Island-
Remove 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)
Deploy and maintain sorbent boom inside of existing hard boom along shoreline areas.
Conduct low pressure high volume water washing along shorelines as directed.

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 at Barnes Island Cove
Assess barge fleet east of Lynchburg Ferry Terminal on the north channel and potentially reconfigure boom and coordinate on water decon requirements.

_____
Monitor boom placements and adjust as necessary based on changing weather and water conditions.

Hot shot teams will support on water recovery operations as needed.

Material collected will be managed in accordance with an approved Waste Management Plan.

Air monitoring support of on water operations will be conducted as per the Air Monitoring Plan.

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 wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location.

Dead Fish Collection Protocol:
With the proper PPE (tyvek, nitrile gloves, eye protection, etc.) collect dead fish and lay them on the shore on a Visqueen or some other lining. Take pictures of the individual fish (or batch of fish) with a scale ruler (or similar item) in the photo if possible. Provide the # of dead fish per day to the Wildlife Hotline.
If the fish cannot be collected due to skimming operations please note the amount of fish collected, take pictures and document numbers of dead fish per day including collector name and contact information.
If you are aware of undocumented fish counts please relay the information to the Wildlife Number.

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

Please call the Wildlife Branch at 512-422-8054 to coordinate activities around Goat Island prior to any booming and/or recovery activities. They will coordinate with a Wildlife Recovery Team and provide direction to minimize bird disturbance (e.g. birds flying away from nests) during booming activities.
If bird disturbance exceeds 60 minutes, operations team will move out of the area until birds return to the rookery.

Below are the Texas Parks and Wildlife Department’s Best Management Practices for the alligator at Bostco Dock (Division D, Grid AA32 and AA33) for immediate communication to those working in Division D:

• TPWD recommends Ops personnel maintain constant observation of the alligator while working in the area and allow it to leave on its own accord.

• If alligator displays aggressive behavior, contact the Wildlife Ops Branch at 832-368-5379.

• If Ops personnel cannot perform their assigned duties due to the presence of the alligator, then Wildlife Ops will develop a plan to relocate it. A TPWD Game Warden and a professional alligator specialist will need to be on site for the capture.

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.

Ensure air monitoring is conducted frequently in the vicinity of work activity. If Benzene is detected at levels higher than 0.5 ppm, evacuate or don APR.

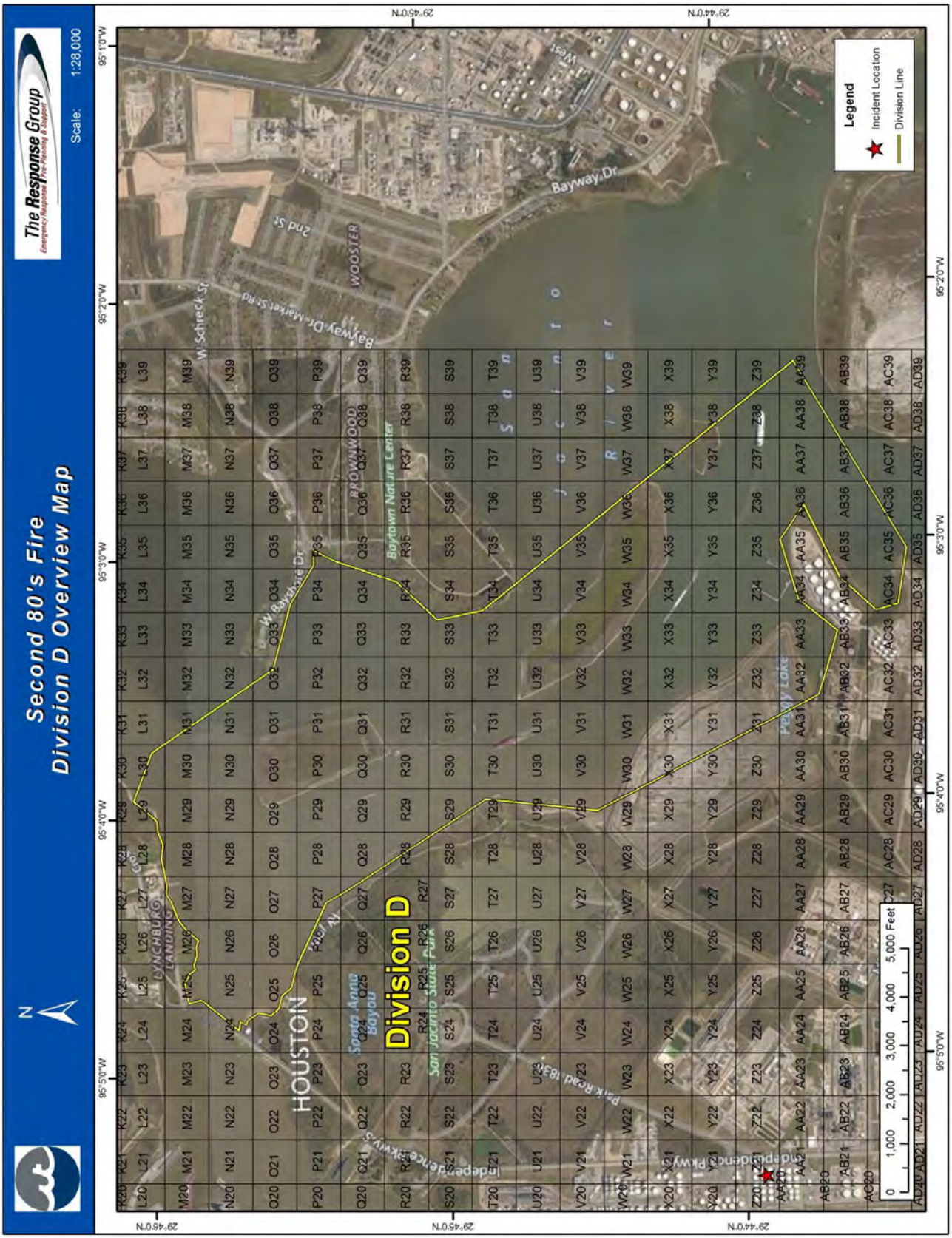
Equipment and personnel must be decontaminated prior to leaving the hot zone.

Report any LEL detection (delineate area).

Prior to operations, establish/maintain communications with facility FSO or Person in Charge (or equivalent). Ensure facility emergency procedures are understood and have identified their closest shelter in place locations.

Prior to any piece of equipment or person entering under or in a pier/dock manway, conduct air monitoring to rule out explosive and toxic environment.

20190402 Division D Grid Map



Operations Personnel

Position	*Name*	*Affiliation*	*Contact Number(s)*	*Work Shift*
Operations Section Chief	Antu, Jason	ITC	281-786-9770	Day Shift
Operations Section Chief	Bargar, Michael	ITC	832-563-7401	Night Shift
Deputy Operations Section Chief (On Land)	Jacobson, Jeff	ITC	713-516-6916	Day Shift
Deputy Operations Section Chief (On Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (EPA)	Moore, Gary	Environmental Protection Agency	(214) 789-1627	Day Shift
Recovery & Protection Branch Director	Lyons, Eric	AMPOL - American Pollution Control	337-519-8070	Day Shift
Recovery & Protection Branch Director	Nichols, Freddie	OMI	501-410-2212	Day Shift
Recovery & Protection Branch Director	Waldmeier, Joshua	USCG	337-853-7077	Day Shift
Recovery & Protection Branch Director	Robertson, David	Environmental Protection Agency	469-394-0177	Day Shift
Recovery & Protection Branch Director	Swanney, Kyle	USCG	832-256-7210	Night Shift
Division E Supervisor	Taylor, Russell	ITC	281-813-2748	Night 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	Willis, Hunter	ITC	346-233-2879	Day Shift

Resources Required

Area Of Operation	*Resource Kind*	*Description*	*Quantity*	*Size*
Division E	Pumps	Pumps	8	
Division E	Boom	Boom	1400	18 inch (es)
Division E	Vacuum Truck 130 bbl	Vacuum Truck 130 bbl	4	
Division E	Vacuum Truck 70 bbl	Vacuum Truck 70 bbl	5	
Division E	Spill Tech	Spill Tech	5	

Assignments

Conduct high volume, low pressure flushing operations along Tidal Rd, Dow Bridge, and downstream to Tucker Bayou. Maintain (4) coffer dams along drainage and recover product within containment areas using vacuum trucks. Skimmers will continue operating from DOW Bridge; offloading to vacuum trucks.

Coordinate flushing operations with Division B on water recovery teams.

Material collected will be managed in accordance with an approved 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 wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location.

Dead Fish Collection Protocol:
With the proper PPE (tyvek, nitrile gloves, eye protection, etc.) collect dead fish and lay them on the shore on a Visqueen or some other lining. Take pictures of the individual fish (or batch of fish) with a scale ruler (or similar item) in the photo if possible. Provide the # of dead fish per day to the Wildlife Hotline.
If the fish cannot be collected due to skimming operations please note the amount of fish collected, take pictures and document numbers of dead fish per day including collector name and contact information.

If you are aware of undocumented fish counts please relay the information to the Wildlife Number.

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.

Ensure air monitoring is conducted frequently in the vicinity of work activity. If Benzene is detected at levels higher than 0.5 ppm, evacuate or don APR.

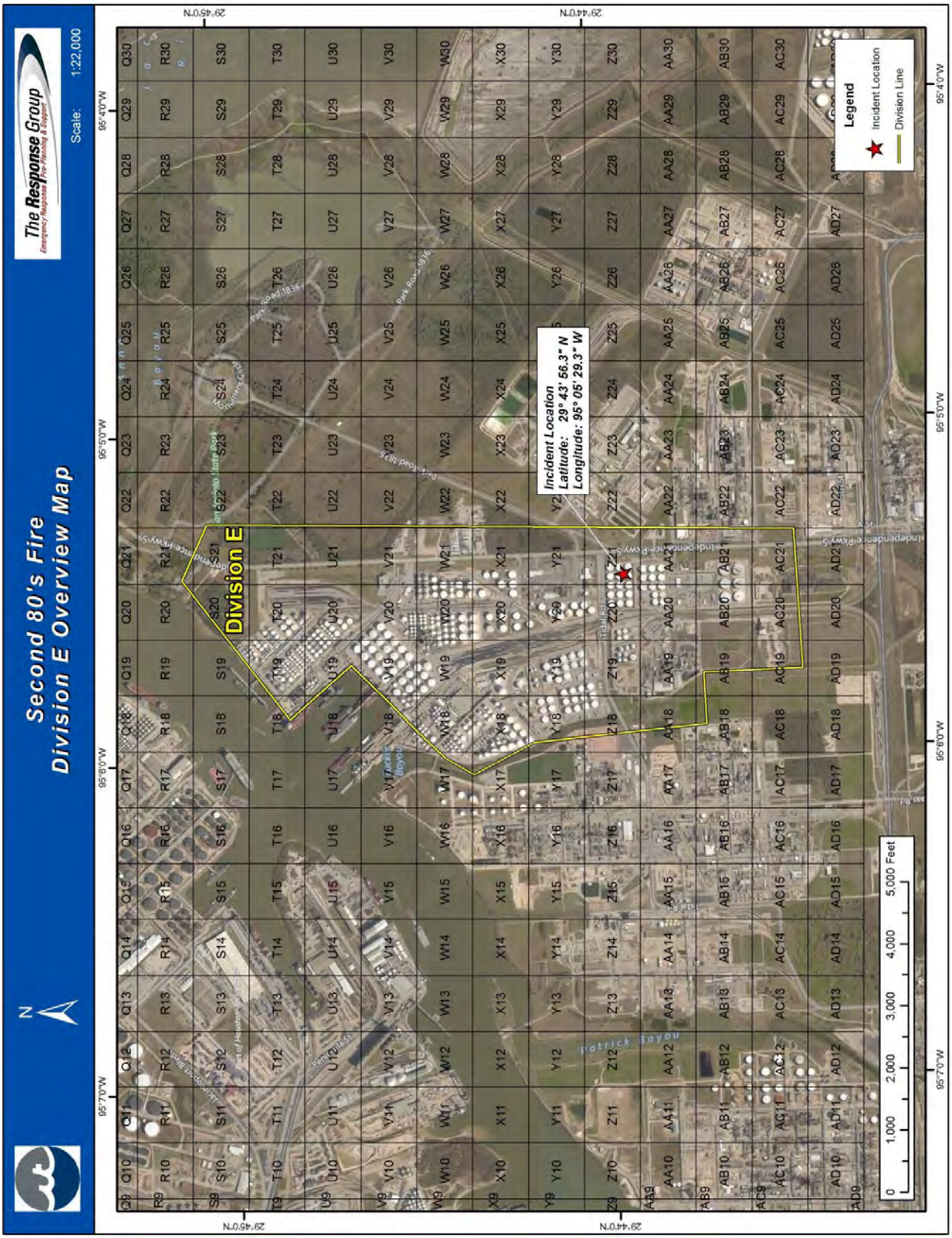
Equipment and personnel must be decontaminated prior to leaving the hot zone.

Report any LEL detection (delineate area).

Prior to operations, establish/maintain communications with facility FSO or Person in Charge (or equivalent). Ensure facility emergency procedures are understood and have identified their closest shelter in place locations.

Prior to any piece of equipment or person entering under or in a pier/dock manway, conduct air monitoring to rule out explosive and toxic environment.

20190402 Division E Grid Map



Operations Personnel

Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Antu, Jason	ITC	281-786-9770	Day Shift
Operations Section Chief	Bargar, Michael	ITC	832-563-7401	Night Shift
Deputy Operations Section Chief (On Land)	Jacobson, Jeff	ITC	713-516-6916	Day Shift
Deputy Operations Section Chief (On Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (EPA)	Moore, Gary	Environmental Protection Agency	(214) 789-1627	Day Shift
Recovery & Protection Branch Director	Lyons, Eric	AMPOL - American Pollution Control	337-519-8070	Day Shift
Recovery & Protection Branch Director	Nichols, Freddie	OMI	501-410-2212	Day Shift
Recovery & Protection Branch Director	Waldmeier, Joshua	USCG	337-853-7077	Day Shift
Recovery & Protection Branch Director	Robertson, David	Environmental Protection Agency	469-394-0177	Day Shift
Recovery & Protection Branch Director	Swanney, Kyle	USCG	832-256-7210	Night 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	Work Boat	Work Boat	4	
Protection Group	Boom	Boom	26400	18 inch (es)
Protection Group	Spill Tech	Spill Tech	28	
Protection Group	42" Harbor Boom	42" Harbor Boom	2500	42 inch (es)
Protection Group	Fast Response Vessel	Fast Response Vessel	1	
Protection Group	Work Barge	Barge Boat	9	
Protection Group	Boat Operator	Boat Operator	14	

Assignments

Maintain boom to protect water intakes and environmentally sensitive areas in coordination with the Protection Group Supervisor and Environmental Unit Leader. Monitor boom placements and adjust as necessary based on changing weather and water conditions.

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. Maintain boom at mouth of the Jacintoport, 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-E Barnes Island Cove
54-N Crystal Bay Marsh
TPWD-1 St. Mary's Beach

TPWD-2 South Goat Island: Proposed Assignment
Increase additional layer of hard boom for redundancy
Dedicate a hot shot team to monitor boom integrity, placement, and product recovery for Goat Island and other rookeries.
Make adjustments as necessary
Dedicate biological monitor to hot shot boat for rookery observations
If flushing observed, operations team will move out of flushing area

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.
Maintain boom at Santa Anna foot bridge (access from land)

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 air monitoring is conducted frequently in the vicinity of work activity. 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.

Heat stress will continue to be a present hazardous condition for all response activities, All responders shall maintain the appropriate "work-rest" ratios.

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;

Protection Group Map

Operations Personnel

Position	***Name***	***Affiliation***	***Contact Number(s)***	***Work Shift***
Operations Section Chief	Antu, Jason	ITC	281-786-9770	Day Shift
Operations Section Chief	Bargar, Michael	ITC	832-563-7401	Night Shift
Deputy Operations Section Chief (On Land)	Jacobson, Jeff	ITC	713-516-6916	Day Shift
Deputy Operations Section Chief (On Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (EPA)	Moore, Gary	Environmental Protection Agency	(214) 789-1627	Day Shift
Tank Farm Operations Branch Director	Kunh, Karl	ITC	713-208-5583	Day Shift
Deputy Tank Farm Operations Branch Director	Holley, Carl	ITC	281-380-1012	Day Shift
Tank Farm Operations Branch Director	Meeks, Chris	ITC	832-514-0760	Night Shift
Deputy Operations Section Chief - Tank Farm Ops	Cadena, Hector	ITC	832-284-3127	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.

Continue tank cleaning for tank 80-15, followed by 80-14. For emissions, tanks 80-13, 80-14, and 80-15 will be de-gassed.

(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.

Continue de-gassing operations on tanks 80-7 and 80-10.

Tank cleaners to begin cleaning process on 80-5, 80-7 and 80-10. Continue to drain material from 80-8. Pumping will be completed using a pump with a manifold with stainless-steel discharge hoses and transfer to 100-15. Personnel will maintain readiness and be staged at hose connections during initial start up.

Remove material from Tanks 80-11, 80-15 and 80-14. Vacuum trucks will continue to remove material from tank 80-13.

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

Tank Farm entry will be conducted 24hrs. 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 wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location. DO NOT DISPOSE.

If small numbers of dead fish are observed, take pictures and record the location (lat/long) and report to the Wildlife Hotline prior to disposal. Wildlife Hotline: 832-368-5379

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 air monitoring is conducted frequently in the vicinity of work activity. 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.

If entering a hot zone, 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.

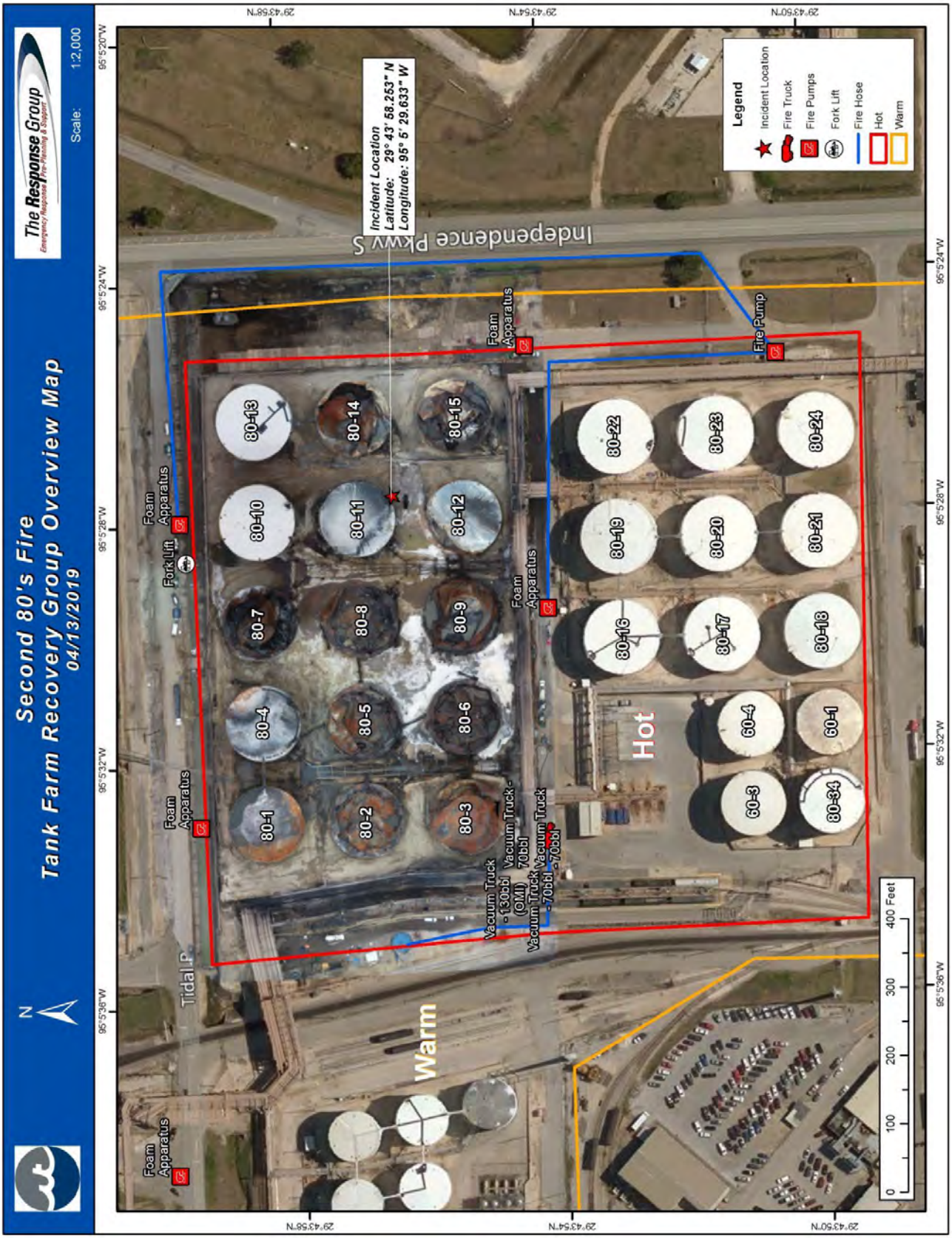
Report any LEL detection (delineate area).

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

Tank Farm Recovery Group Map



Operations Personnel

Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Antu, Jason	ITC	281-786-9770	Day Shift
Operations Section Chief	Bargar, Michael	ITC	832-563-7401	Night Shift
Deputy Operations Section Chief (On Land)	Jacobson, Jeff	ITC	713-516-6916	Day Shift
Deputy Operations Section Chief (On Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (EPA)	Moore, Gary	Environmental Protection Agency	(214) 789-1627	Day Shift
Tank Farm Operations Branch Director	Kunh, Karl	ITC	713-208-5583	Day Shift
Deputy Tank Farm Operations Branch Director	Holley, Carl	ITC	281-380-1012	Day Shift
Tank Farm Operations Branch Director	Meeks, Chris	ITC	832-514-0760	Night Shift
Deputy Operations Section Chief - Tank Farm Ops	Cadena, Hector	ITC	832-284-3127	Night Shift
Fire Suppression Group Supervisor	Nawrocki, Ryan	US Fire Pump	225-931-0694	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 to hot spots within the tank berm area to mitigate any re-ignition potential. Foam applied as needed using cannons. Every 2 hours (as necessary). 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 be conducted 24hrs.

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

If small numbers of dead fish are observed, take pictures and record the location (lat/long) and report to the Wildlife Hotline prior to disposal. Wildlife Hotline: 832-368-5379

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 air monitoring is conducted frequently in the vicinity of work activity. 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	Antu, Jason	ITC	281-786-9770	Day Shift
Operations Section Chief	Bargar, Michael	ITC	832-563-7401	Night Shift
Deputy Operations Section Chief (On Land)	Jacobson, Jeff	ITC	713-516-6916	Day Shift
Deputy Operations Section Chief (On Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (EPA)	Moore, Gary	Environmental Protection Agency	(214) 789-1627	Day Shift
Tank Farm Operations Branch Director	Kunh, Karl	ITC	713-208-5583	Day Shift
Deputy Tank Farm Operations Branch Director	Holley, Carl	ITC	281-380-1012	Day Shift
Tank Farm Operations Branch Director	Meeks, Chris	ITC	832-514-0760	Night Shift
Deputy Operations Section Chief - Tank Farm Ops	Cadena, Hector	ITC	832-284-3127	Night Shift
Fire Suppression Group Supervisor	Nawrocki, Ryan	US Fire Pump	225-931-0694	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	Drake, Jim	ITC	713-560-2497	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 100-15.

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

Communications

Name / Function	*Contact Details*
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 wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location. DO NOT DISPOSE.

If small numbers of dead fish are observed, take pictures and record the location (lat/long) and report to the Wildlife Hotline prior to disposal. Wildlife Hotline: 832-368-5379

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Special Site-Specific Safety Considerations

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

Ensure air monitoring is conducted frequently in the vicinity of work activity. 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	Antu, Jason	ITC	281-786-9770	Day Shift
Operations Section Chief	Bargar, Michael	ITC	832-563-7401	Night Shift
Deputy Operations Section Chief (On Land)	Jacobson, Jeff	ITC	713-516-6916	Day Shift
Deputy Operations Section Chief (On Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (EPA)	Moore, Gary	Environmental Protection Agency	(214) 789-1627	Day Shift
Recovery & Protection Branch Director	Lyons, Eric	AMPOL - American Pollution Control	337-519-8070	Day Shift
Recovery & Protection Branch Director	Nichols, Freddie	OMI	501-410-2212	Day Shift
Recovery & Protection Branch Director	Waldmeier, Joshua	USCG	337-853-7077	Day Shift
Recovery & Protection Branch Director	Robertson, David	Environmental Protection Agency	469-394-0177	Day Shift
Recovery & Protection Branch Director	Swanney, Kyle	USCG	832-256-7210	Night 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
Leader				

Resources Required

Area Of Operation	Resource Kind	Description	Quantity	Size
Kirby Decon TF	Decon Personnel	Decon Personnel	7	
Kirby Decon TF	Hot Water Pressure Washer	Hot Water Pressure Washer	1	
Kirby Decon TF	Manpower: Supervisor	Barge Wash Supervisor	1	

Assignments

Working in Division C:
Decon barges at Kirby facility.

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 wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location.

Dead Fish Collection Protocol:
With the proper PPE (tyvek, nitrile gloves, eye protection, etc.) collect dead fish and lay them on the shore on a Visqueen or some other lining. Take pictures of the individual fish (or batch of fish) with a scale ruler (or similar item) in the photo if possible. Provide the # of dead fish per day to the Wildlife Hotline.
If the fish cannot be collected due to skimming operations please note the amount of fish collected, take pictures and document numbers of dead fish per day including collector name and contact information.
If you are aware of undocumented fish counts, please relay the information to the Wildlife Number.

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 air monitoring is conducted frequently in the vicinity of work activity. 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.

If entering a hot zone, all equipment and personnel must be decontaminated prior to leaving the hot zone.

Heat stress will continue to be a present hazardous condition for all response activities, All responders shall maintain the appropriate "work-rest" ratios.

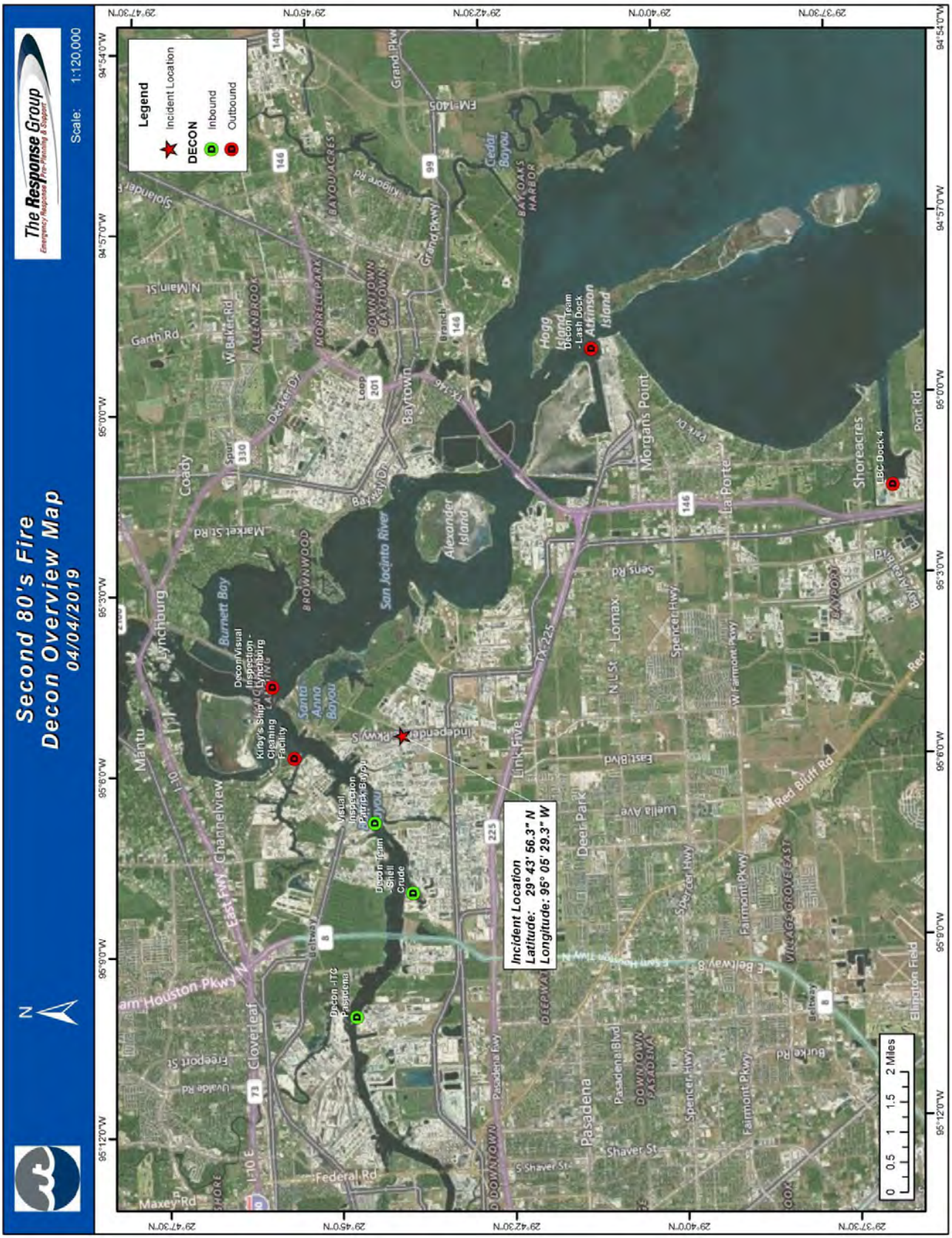
Action Levels for Benzene:

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

Decon Map


Second 80's Fire
Decon Overview Map
04/04/2019
The Response Group
Scale: 1:120,000
Legend
Incident Location
DECON
Inbound
Outbound
Incident Location
Latitude: 29° 43' 56.3" N
Longitude: 95° 05' 29.3" W
Decon Team - Lash Dock
Decon Visual Inspection - Lynchburg
Kirby's Ship Cleaning Facility
Visual Inspection - Patrick Bayou
Decon Team - Shell Crude
Decon - ITC Pasadena
LBC Dock 4
0 0.5 1 1.5 2 Miles

Operations Personnel

Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Antu, Jason	ITC	281-786-9770	Day Shift
Operations Section Chief	Bargar, Michael	ITC	832-563-7401	Night Shift
Deputy Operations Section Chief (On Land)	Jacobson, Jeff	ITC	713-516-6916	Day Shift
Deputy Operations Section Chief (On Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (EPA)	Moore, Gary	Environmental Protection Agency	(214) 789-1627	Day Shift
On Water Decon Group Supervisor	Waldmeier, Joshua	USCG	337-853-7077	Day Shift
On Water Decon Group Supervisor	Rogers, Wesley	OMI	504-912-6092	

Resources Required

Area Of Operation	Resource Kind	Description	Quantity	Size
On Water Decon Group	Work Boat	Work Boat	3	
On Water Decon Group	Boat Operator	Boat Operator	5	
On Water Decon Group	Decon Personnel	Decon Personnel	66	
On Water Decon Group	Boom	Boom	12000	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	13	
On Water Decon Group	Fire Boat	Fire Boat	2	
On Water Decon Group	Manpower: Supervisor	Barge Wash Supervisor	1	
On Water Decon Group	Equipment: Decon	Decon Pools	2	

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.

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

Coordinate tug traffic for decon at Old River, Lynchburg, Shell

Decon Sites:
Old River South (x2)
Old River North (Non red-flag ONLY)
Kirby Cleaning facility (Carpenters Bayou)

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

(1) Roving mobile decon station to support Decon operations.

In addition to these resources, in the vicinity of the Battleship Texas Grid Q-20, (1) T&T Marine Fire Boat staged and assigned to underway commercial vessel Decon.

Material collected will be managed in accordance with an approved Waste Management Plan.

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 wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location.

Dead Fish Collection Protocol:
With the proper PPE (tyvek, nitrile gloves, eye protection, etc.) collect dead fish and lay them on the shore on a Visqueen or some other lining. Take pictures of the individual fish (or batch of fish) with a scale ruler (or similar item) in the photo if possible. Provide the # of dead fish per day to the Wildlife Hotline.
If the fish cannot be collected due to skimming operations, please note the amount of fish collected, take pictures and document numbers of dead fish per day including collector name and contact information.
If you are aware of undocumented fish counts please relay the information to the Wildlife Number.

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 air monitoring is conducted frequently in the vicinity of work activity. 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.

If entering a hot zone, all equipment and personnel must be decontaminated prior to leaving the hot zone.

Heat stress will continue to be a present hazardous condition for all response activities, All responders shall maintain the appropriate "work-rest" ratios.

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

20190410 Decon Map

© TRG

Operations Personnel

Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Antu, Jason	ITC	281-786-9770	Day Shift
Operations Section Chief	Bargar, Michael	ITC	832-563-7401	Night Shift
Deputy Operations Section Chief (On Land)	Jacobson, Jeff	ITC	713-516-6916	Day Shift
Deputy Operations Section Chief (On Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (EPA)	Moore, Gary	Environmental Protection Agency	(214) 789-1627	Day Shift
Decon Project Manager	Henry, Randall	The Response Group	409-540-0252	

Resources Required

Area Of Operation	Resource Kind	Description	Quantity	Size
Equipment Decon for Demob	Fast Response Vessel	FRV	3	27 feet
Equipment Decon for Demob	Crane	Crane	2	
Equipment Decon for Demob	Boat Operator	Boat Operator	12	
Equipment Decon for Demob	Decon Personnel	Decon Personnel	100	
Equipment Decon for Demob	Hot Water Pressure Washer	Hot Water Pressure Washer	24	
Equipment Decon for Demob	Command Trailer	Command Trailer	2	
Equipment Decon for Demob	Fork Lift	Fork Lift	4	
Equipment Decon for Demob	Equipment: Decon	Decon Pools	12	
Equipment Decon for Demob	Frac Tank	Frac Tank	2	
Equipment Decon for Demob	Vacuum Truck 130 bbl	Vacuum Truck 130 bbl	1	
Equipment Decon for Demob	Vacuum Truck 70 bbl	Vacuum Truck 70 bbl	3	
Equipment Decon for Demob	Roll Off Box	Roll Off Box	17	
Equipment Decon for Demob	Bobtail truck	Bobtail truck	2	
Equipment Decon for Demob	Ambulance	Ambulance	2	
Equipment Decon for Demob	Fuel Tank	Fuel Tank	2	
Equipment Decon for Demob	Air Compressor	Air Compressor	2	
Equipment Decon for Demob	Generator	Generator	5	
Equipment Decon for Demob	Light Plants	Light Plants	3	
Equipment Decon for Demob	Light Tower	Light Tower	50	
Equipment Decon for Demob	Diaphragm Pump	Diaphragm Pump	24	

Assignments

Complete setup of decon site and begin decontamination operations of response equipment, per the Decontamination Plan.

All contaminated equipment used in the spill response will be deconned to a condition of cleanliness agreeable to both the Unified Command and the equipment owner, so that equipment is returned to its owners in roughly the same condition it was in when it arrived.

The primary focus of this operation will be to expedite cleanup of impacted vessels and response equipment in a safe, organized and efficient manner while minimizing further damage to the environment and waste generation. Personnel health and safety will be of utmost importance during all decon operations.

Equipment decontamination will occur as follows:
- Recovered product is to be off-loaded from skimmer cargo tanks to portable storage tanks and/or vacuum trucks pending transfer to ITC in accordance with the incident-specific Waste Handling Plan
- Equipment to be transferred into a bermed area and decontaminated.
- All equipment will undergo full decontamination prior to demobilization.

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

If small numbers of dead fish are observed, take pictures and record the location (lat/long) and report to the Wildlife Hotline prior to disposal. Wildlife Hotline: 832-368-5379

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

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

Ensure air monitoring is conducted frequently in the vicinity of work activity. 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.

If entering a hot zone, all equipment and personnel must be decontaminated prior to leaving the hot zone.

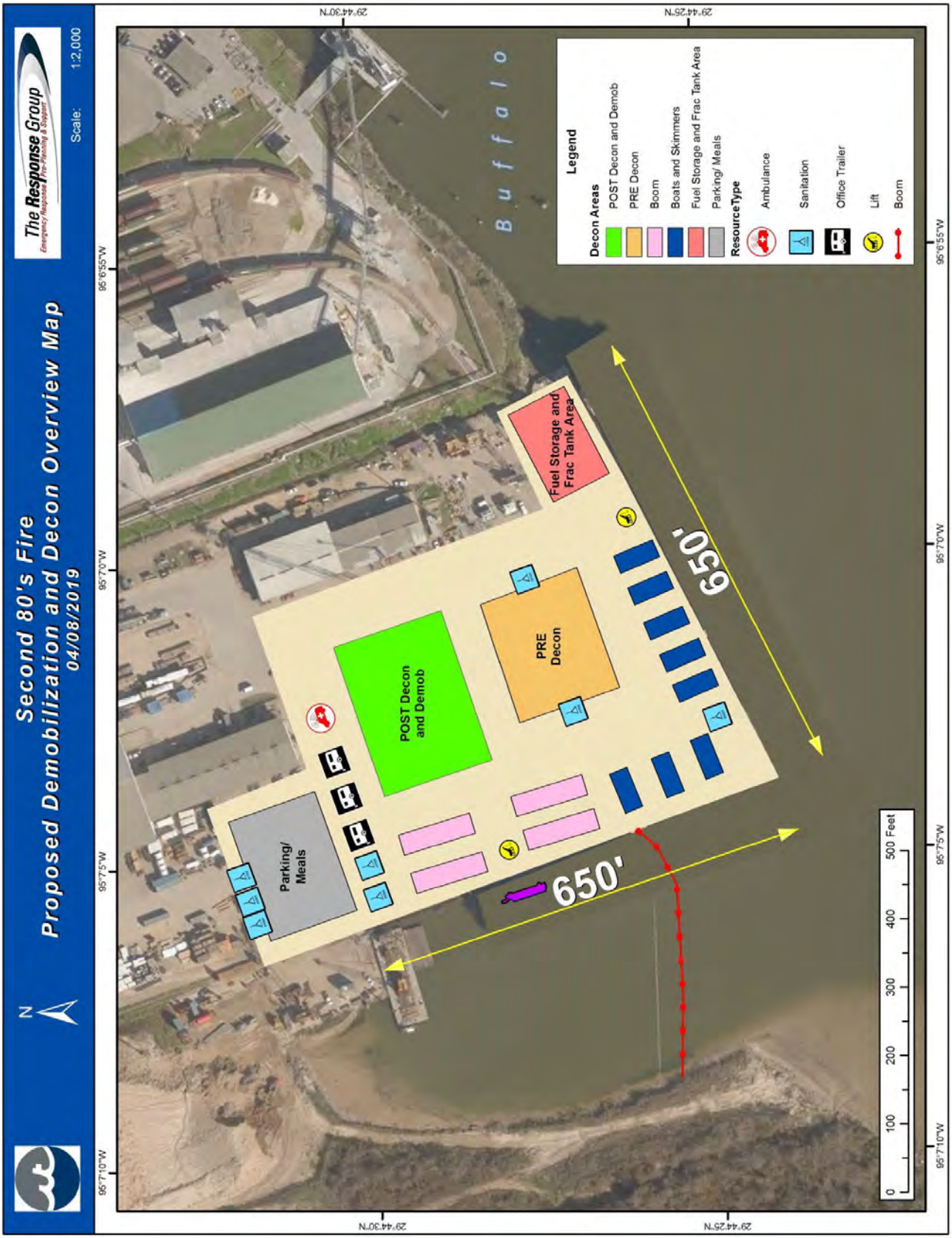
Action Levels for Benzene:

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

Proposed Decon and Demobilization Site



Operations Personnel

Position	Name	Affiliation	Contact Number(s)	Work Shift
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Operations Section Chief	Bargar, Michael	ITC	832-563-7401	Night Shift
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Deputy Operations Section Chief (EPA)	Moore, Gary	Environmental Protection Agency	(214) 789-1627	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	165	
Land Based Air Monitoring Group	Manpower: Responder	Air Monitoring Tech	188	
Land Based Air Monitoring Group	Aircraft: UAV	Aircraft	1	
Land Based Air Monitoring Group	Vehicle	Vehicle	158	

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: 157 (3 Air Monitoring Devices per Kit)
Personnel: 157
Vehicles: 157

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

Joint Strike team comprised of:
(2) Roving monitoring teams conducting air monitoring (1 day, 1 night).
EPA TAGA bus to continue to conduct air monitoring in community areas. If there is an area of concern where TAGA can be utilized, contact EPA. Aspect flights daily as conditions allow.
EPA - 13
CTEH - 3
TCEQ - 3

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

TCEQ will deploy (4) teams during day operations and (4) 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.
4 Teams during Day Ops:
TCEQ - 4 (2 teams of 2)
SWS - 2 (2 teams of 1)
Vehicles: 4
4 Teams during Night Ops:
SWS - 4 (4 teams of 1)
Vehicles: 4

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

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

DO NOT USE THE RESTROOM AT THE STATE PARK. The onsite waste water treatment plant is currently non-operational.

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 air monitoring is conducted frequently in the vicinity of work activity. 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.

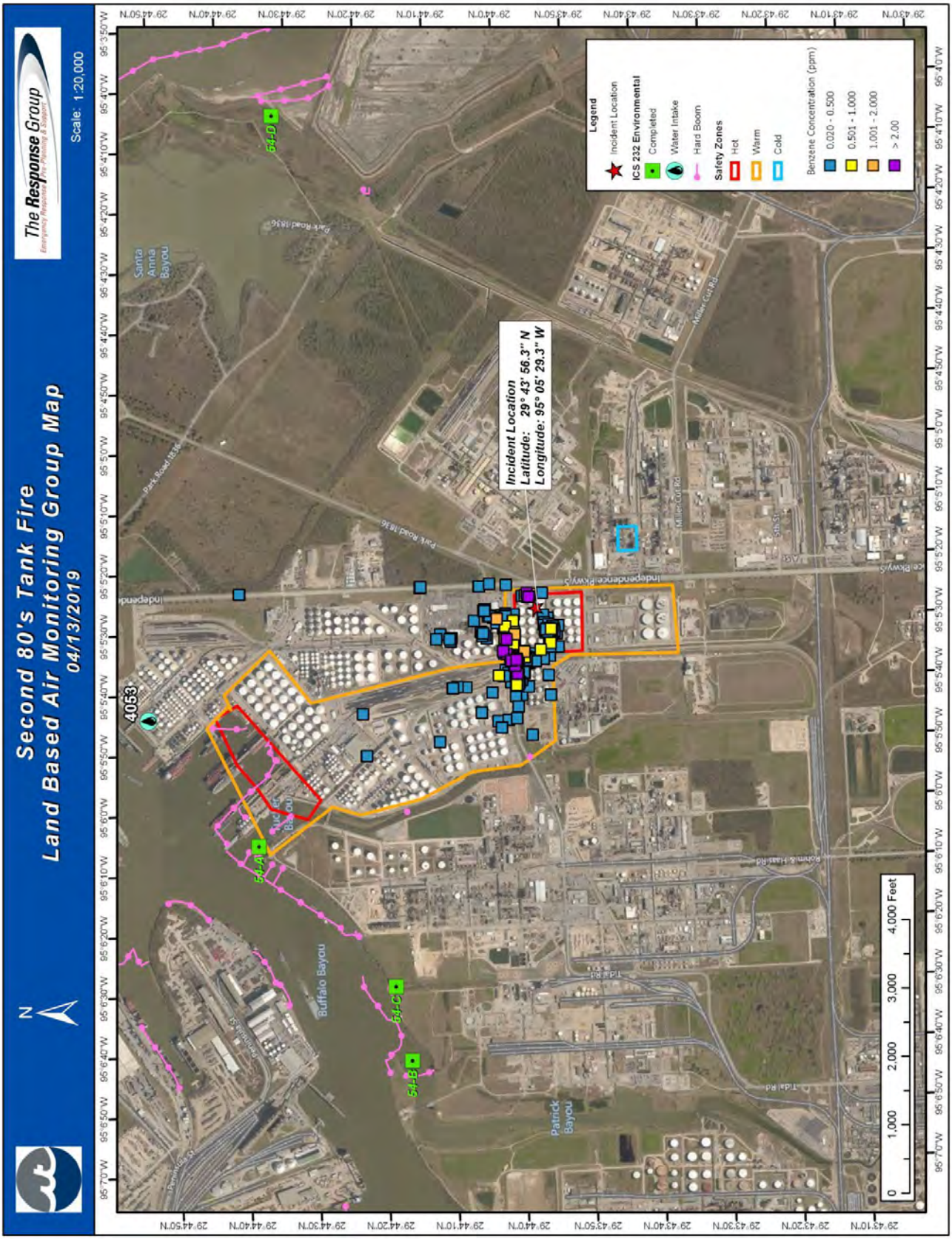
Action Levels for Benzene:

>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

Land Based Air Monitoring



Operations Personnel

Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Antu, Jason	ITC	281-786-9770	Day Shift
Operations Section Chief	Bargar, Michael	ITC	832-563-7401	Night Shift
Deputy Operations Section Chief (On Land)	Jacobson, Jeff	ITC	713-516-6916	Day Shift
Deputy Operations Section Chief (On Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (EPA)	Moore, Gary	Environmental Protection Agency	(214) 789-1627	Day Shift

Resources Required

Area Of Operation	Resource Kind	Description	Quantity	Size
On-Water Air Monitoring Group	Equipment: Safety	Air Monitoring Devices	96	
On-Water Air Monitoring Group	Manpower: Responder	Air Monitoring Tech	99	
On-Water Air Monitoring Group	Work Boat	EPA Air Monitoring Vessel	1	
On-Water Air Monitoring Group	Boat Operator	Boat Operator	3	
On-Water Air Monitoring Group	Fast Response Vessel	Fast Response Vessel	2	

Assignments

USCG Strike Team to conduct air monitoring throughout all divisions as directed on the TANB vessel. Platform will be available to assist decon personnel as needed.

Joint Air Monitoring Strike Team: Roving monitoring team conducting air monitoring (1 - EPA, 1-TCEQ, 1-CTEH).
Personnel: 3
Vessel (ITC) - 1

CTEH: Real time air monitoring on response vessels. (Benzene, VOCs)
Personnel: 96
Air Monitoring Device: 96

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 wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location.

Dead Fish Collection Protocol:
With the proper PPE (tyvek, nitrile gloves, eye protection, etc.) collect dead fish and lay them on the shore on a Visqueen or some other lining. Take pictures of the individual fish (or batch of fish) with a scale ruler (or similar item) in the photo if possible. Provide the # of dead fish per day to the Wildlife Hotline.
If the fish cannot be collected due to skimming operations please note the amount of fish collected, take pictures and document numbers of dead fish per day including collector name and contact information.

If you are aware of undocumented fish counts please relay the information to the Wildlife Number.

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 air monitoring is conducted frequently in the vicinity of work activity. 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.

Heat stress will continue to be a present hazardous condition for all response activities, All responders shall maintain the appropriate "work-rest" ratios.

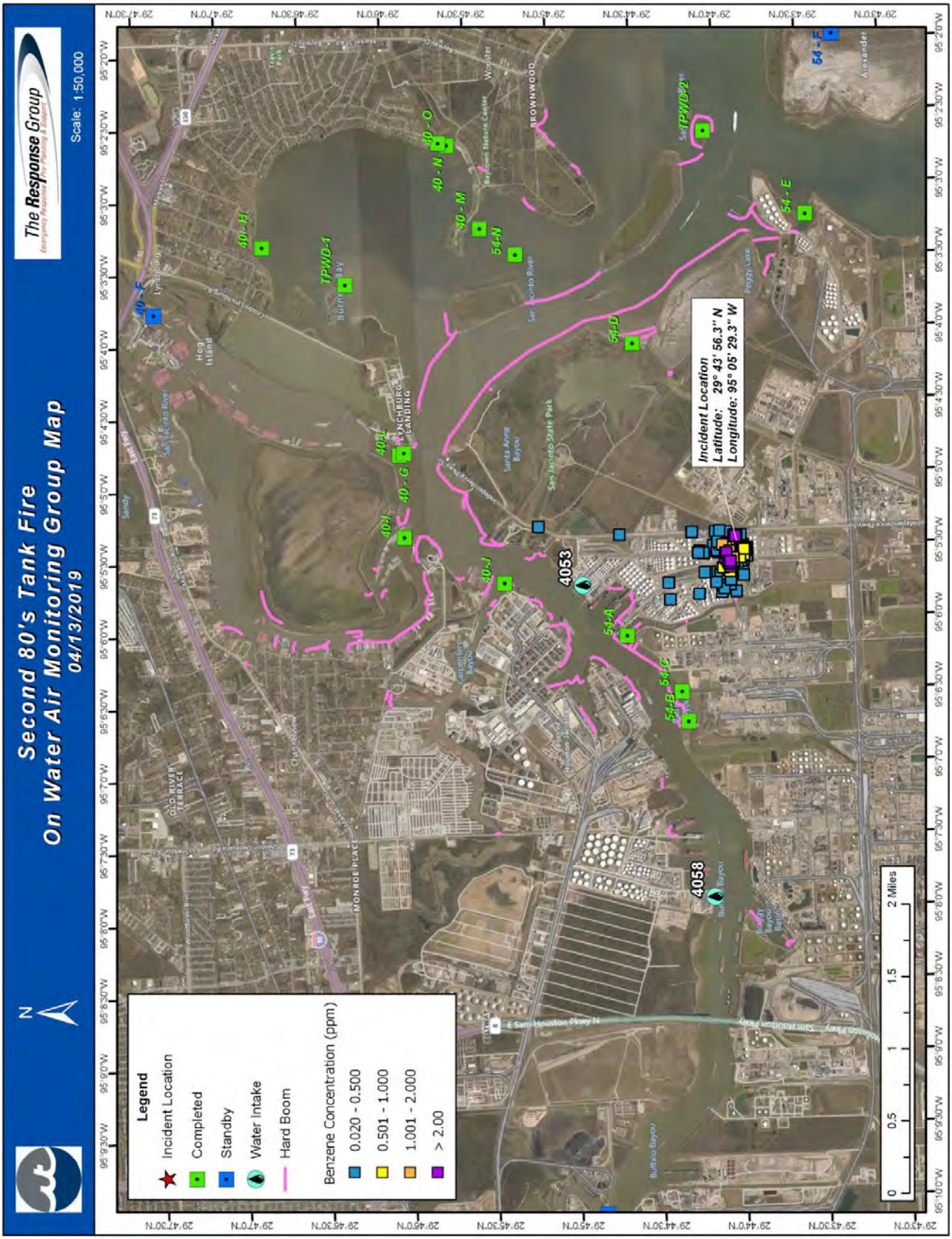
Action Levels for Benzene:

>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

On Water Air Monitoring Group



Operations Personnel

Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Antu, Jason	ITC	281-786-9770	Day Shift
Operations Section Chief	Bargar, Michael	ITC	832-563-7401	Night Shift
Deputy Operations Section Chief (On Land)	Jacobson, Jeff	ITC	713-516-6916	Day Shift
Deputy Operations Section Chief (On Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (EPA)	Moore, Gary	Environmental Protection Agency	(214) 789-1627	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	5	
Water Sampling Group	Vehicle	Vehicle	3	
Water Sampling Group	Work Boat	EPA Air Monitoring Vessel	1	
Water Sampling Group	Boat Operator	Boat Operator	2	
Water Sampling Group	Fast Response Vessel	Fast Response Vessel	1	

Assignments

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. Eleven total locations.
Personnel - 3
Vessel - 1

TCEQ: (2) Surface quality groups (one group of 3 people, one group of 2 people) 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.
Personnel - 5

Cardno: (1) Team will conduct surface 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. (1) Team will be available for foam tote inventory and other sampling needs.
Personnel - 2
Vessel - 1

ITC: Water sampling will occur at outfall 3 receiving ditch regularly every two hours while pump operations are taking place. Additional sample may be taken in accordance with TCEQ permit requirements.

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
Marine - Hailing and Emergency / All	Marine - Hailing and Emergency 16

Communications

Name / Function	Contact Details
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 wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location.

Dead Fish Collection Protocol:
With the proper PPE (tyvek, nitrile gloves, eye protection, etc.) collect dead fish and lay them on the shore on a Visqueen or some other lining. Take pictures of the individual fish (or batch of fish) with a scale ruler (or similar item) in the photo if possible. Provide the # of dead fish per day to the Wildlife Hotline.
If the fish cannot be collected due to skimming operations, please note the amount of fish collected, take pictures and document numbers of dead fish per day including collector name and contact information.
If you are aware of undocumented fish counts please relay the information to the Wildlife Number.

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

DO NOT USE THE RESTROOM AT THE STATE PARK. The onsite waste water treatment plant is currently non-operational.

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 air monitoring is conducted frequently in the vicinity of work activity. 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).

Heat stress will continue to be a present hazardous condition for all response activities, All responders shall maintain the appropriate "work-rest" ratios.

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	Antu, Jason	ITC	281-786-9770	Day Shift
Operations Section Chief	Bargar, Michael	ITC	832-563-7401	Night Shift
Deputy Operations Section Chief (On Land)	Jacobson, Jeff	ITC	713-516-6916	Day Shift
Deputy Operations Section Chief (On Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (EPA)	Moore, Gary	Environmental Protection Agency	(214) 789-1627	Day Shift
Waste Group Supervisor	Blankenship, Tyler	ITC	832-643-9594	

Resources Required

Area Of Operation	Resource Kind	Description	Quantity	Size
Waste Group	Manpower: Supervisor	Supervisor	2	

Assignments

All collected solid waste from recovery operations will be stored in poly bags. Poly bags will be stored in lined roll off boxes at K-Solv. Additional roll off boxes are located at 'Environmental Pond', 'Roll Off Dock' and '4 Dock'. Once roll off boxes are full, they will be transported to ITC at North Rail Scale road.

All recovered liquids will be stored in barges or frac tanks. Storage barges are located at KSolv. Frac tanks are located at DOW Bridge, Roll Off Dock and 4 Dock. Recovered liquid will then be transferred as needed to ITC tank storage 100-28, 100-31, 100-15, 100-1 and 80-33.

Contaminated solids being tracked at point of transportation from KSolve facility to ITC Facility where it is stored in interim.

Material collected will be managed in accordance with an approved Waste Management Plan.

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

If small numbers of dead fish are observed, take pictures and record the location (lat/long) and report to the Wildlife Hotline prior to disposal. Wildlife Hotline: 832-368-5379

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 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 air monitoring is conducted frequently in the vicinity of work activity. 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.

If entering a hot zone, all equipment and personnel must be decontaminated prior to leaving the hot zone.

Heat stress will continue to be a present hazardous condition for all response activities, All responders shall maintain the appropriate "work-rest" ratios.

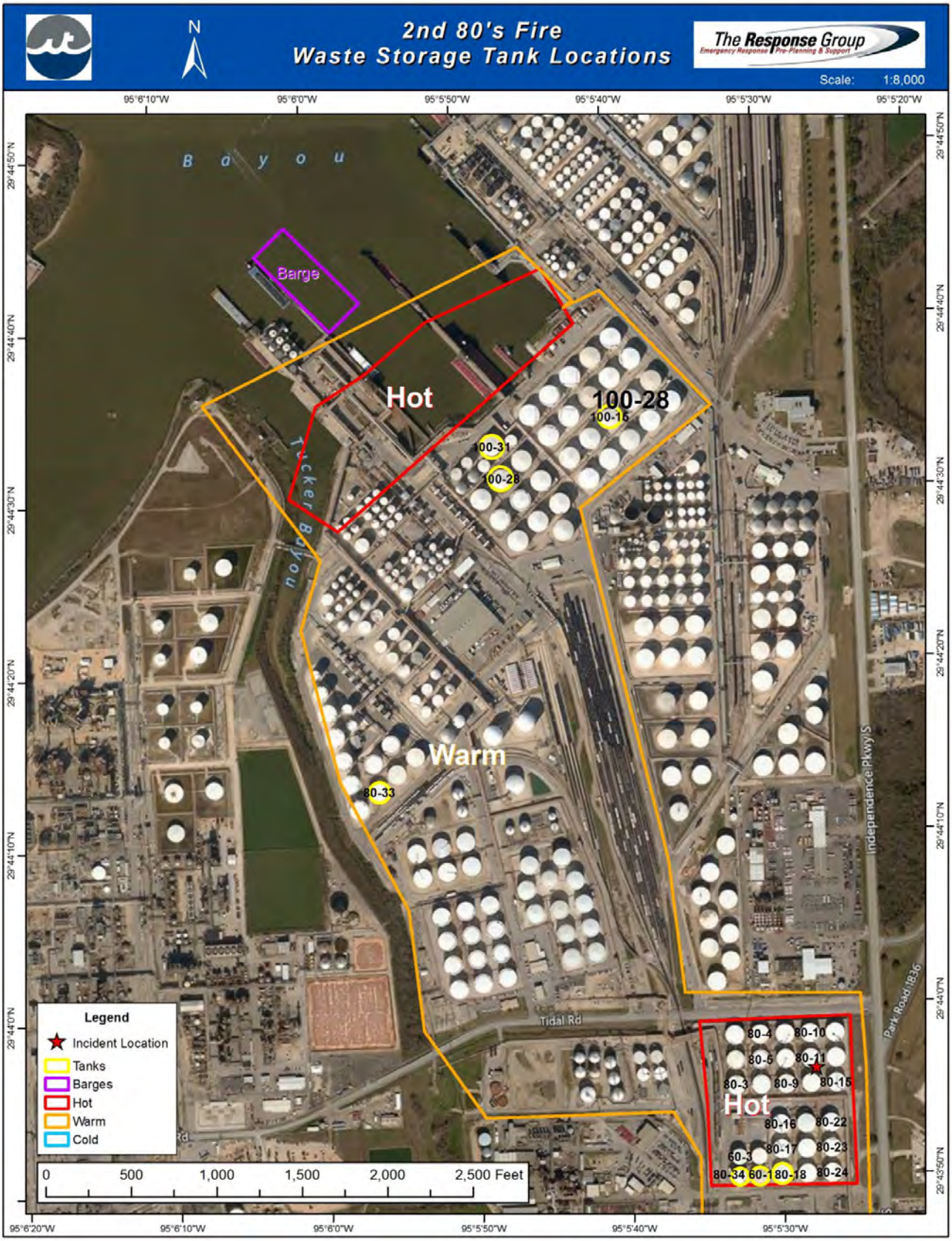
Action Levels for Benzene:

>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

Waste Tank Locations



Operations Personnel

Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Antu, Jason	ITC	281-786-9770	Day Shift
Operations Section Chief	Bargar, Michael	ITC	832-563-7401	Night Shift
Deputy Operations Section Chief (On Land)	Jacobson, Jeff	ITC	713-516-6916	Day Shift
Deputy Operations Section Chief (On Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (EPA)	Moore, Gary	Environmental Protection Agency	(214) 789-1627	Day Shift
Rapid Assessment Team (RAT)	Wakefield, Jeff	Cardno	302-388-9173	Day Shift

Resources Required

Area Of Operation	Resource Kind	Description	Quantity	Size
SCAT	Equipment: Safety	Air Monitoring Devices	3	
SCAT	Manpower: Responder	Air Monitoring Tech	3	
SCAT	Aircraft: UAV	Aircraft	1	
SCAT	Boat Operator	Boat Operator	3	

Assignments

(3) Shoreline Cleanup Assessment Technique (SCAT)/ (1) Rapid Assessment Teams (RAT);
(1) UAS team to support and provide aerial assessment as needed.

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, which has been developed.

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 wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location.

Dead Fish Collection Protocol:
With the proper PPE (tyvek, nitrile gloves, eye protection, etc.) collect dead fish and lay them on the shore on a Visqueen or some other lining. Take pictures of the individual fish (or batch of fish) with a scale ruler (or similar item) in the photo if possible. Provide the # of dead fish per day to the Wildlife Hotline.
If the fish cannot be collected due to skimming operations please note the amount of fish collected, take pictures and document numbers of dead fish per day including collector name and contact information.
If you are aware of undocumented fish counts please relay the information to the Wildlife Number.

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 air monitoring is conducted frequently in the vicinity of work activity. If Benzene is detected at levels higher than action level, evacuate the area, report to supervisor and Mike Gaudet (281-787-8256).

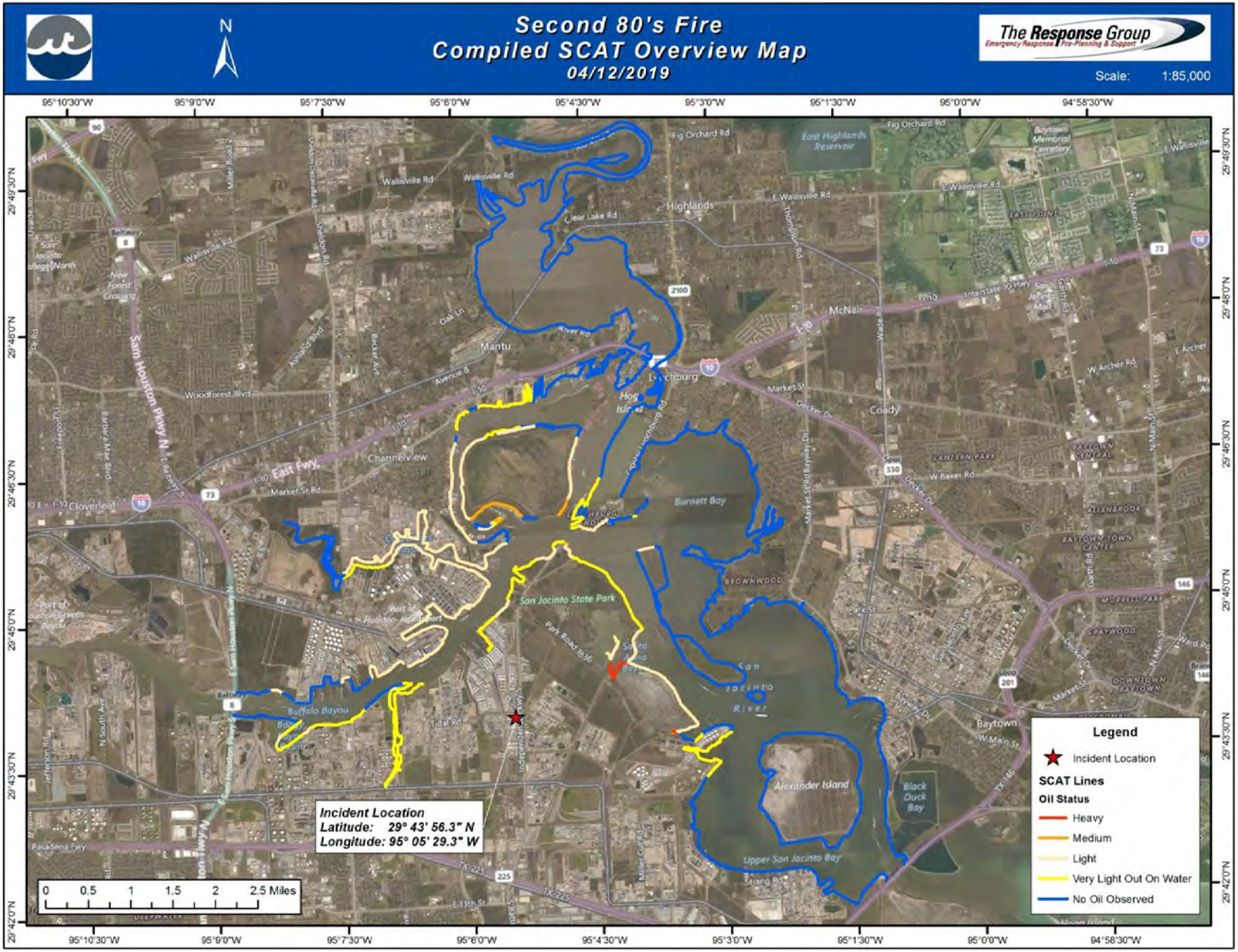
If entering a hot zone, all equipment and personnel must be decontaminated prior to leaving the hot zone.

Action Levels for Benzene:

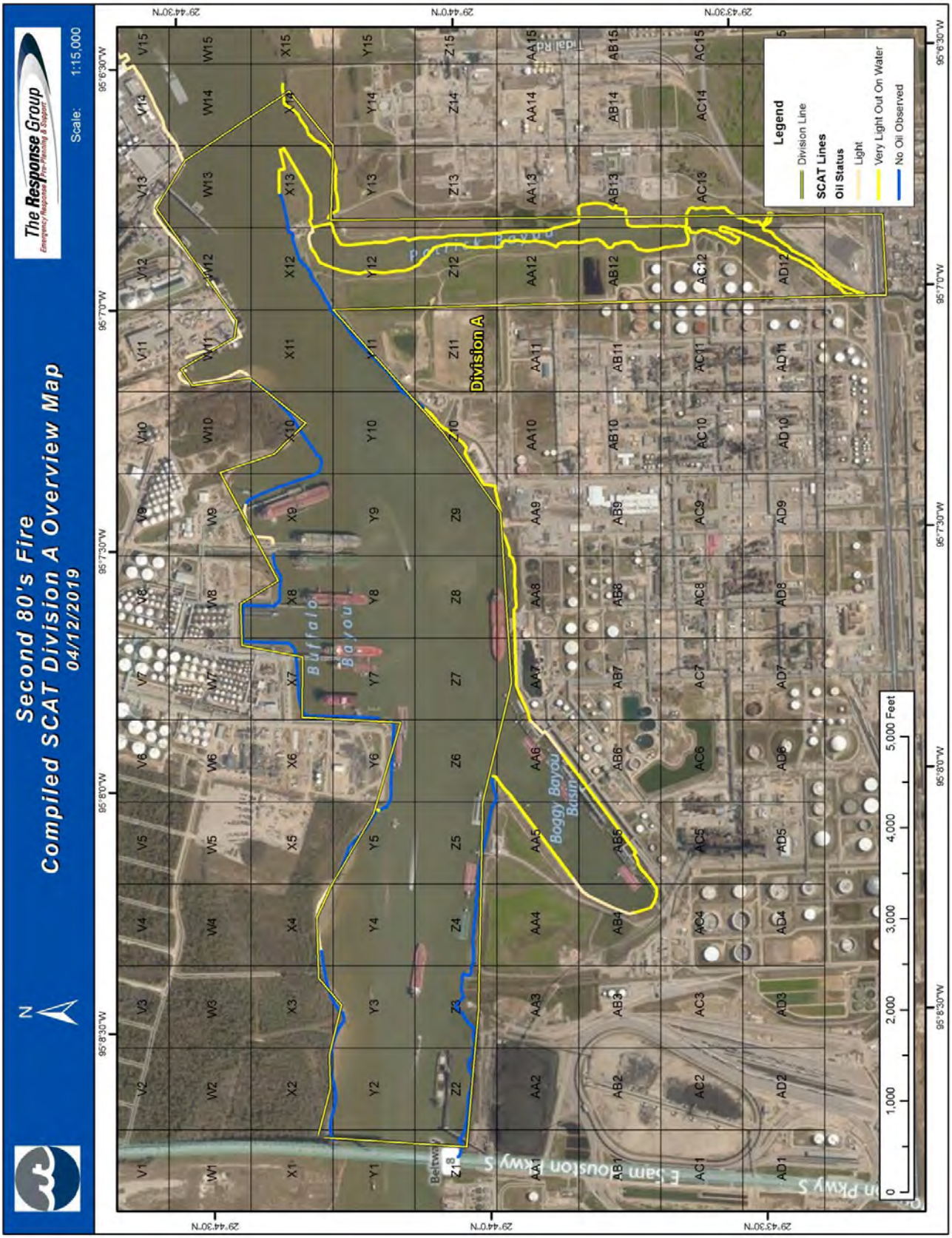
Less than 0.5ppm: No respiratory protection needed
Greater than 0.5 ppm - Don full face APR: Must change APR cartridges to prevent breakthrough every 4 hours.
Greater than 25.0 ppm - Supplied Air;

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
Compiled SCAT Overview Map
04/12/2019
The Response Group
Emergency Response | Pre-Planning & Support
Scale: 1:85,000
N
Legend
Incident Location
SCAT Lines
Oil Status
Heavy
Medium
Light
Very Light Out On Water
No Oil Observed
Incident Location
Latitude: 29° 43' 56.3" N
Longitude: 95° 05' 29.3" W
0 0.5 1 1.5 2 2.5 Miles
Burnett Bay
San Jacinto State Park
San Jacinto River
Alexander Island
Black Duck Bay
Upper San Jacinto Bay
Buffalo Bayou
Baytown
Highlands
Channelview
Mantu
McNair
Coady
East Highlands Reservoir
Sam Houston Pkwy N
East Fwy.
Cloverleaf
Woodforest Blvd
Wallisville Rd
Fig Orchard Rd
Clear Lake Rd
Market St
Decker Dr
Park Road 1836
95°10'30"W
95°9'0"W
95°7'30"W
95°6'0"W
95°4'30"W
95°3'0"W
95°1'30"W
95°0'0"W
94°58'30"W
29°49'30"N
29°48'0"N
29°46'30"N
29°45'0"N
29°43'30"N
29°42'0"N

20190412 Compiled SCAT Division A

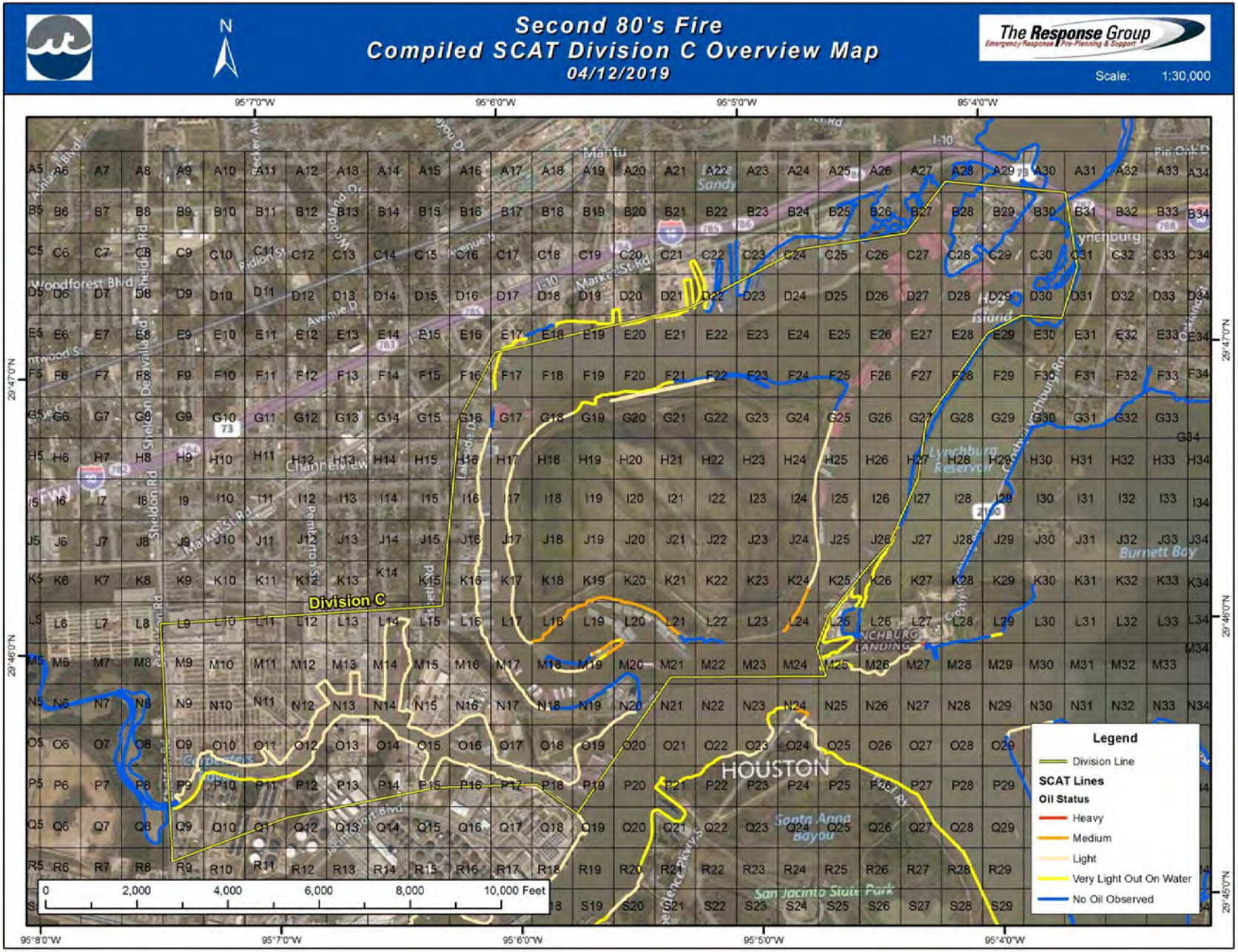


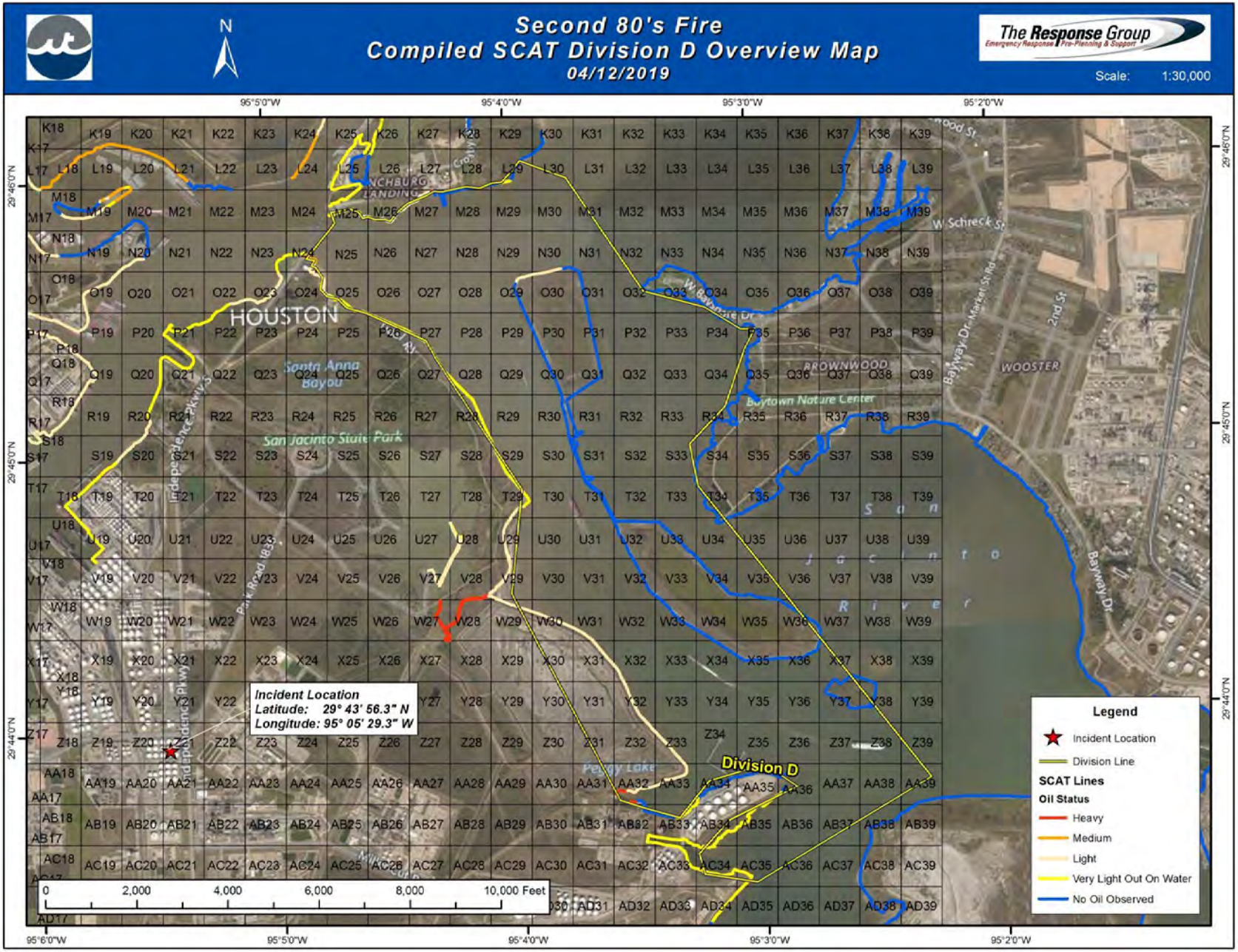
20190412 Compiled SCAT Division B

Incident Name: 2nd 80's Fire

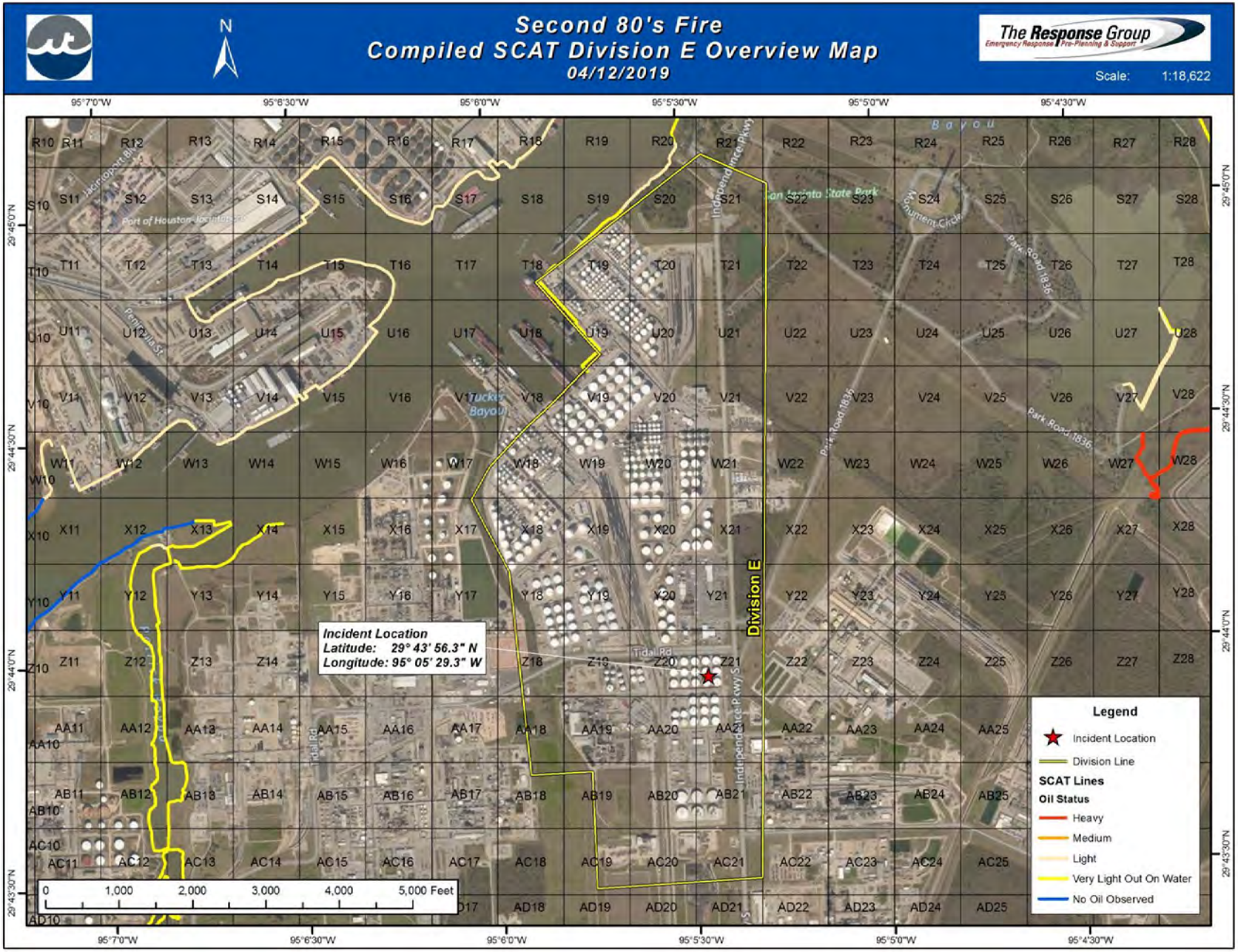
Period: Period 15 [04/14/2019 07:00 - 04/17/2019 07:00]

20190412 Compiled SCAT Division C




Second 80's Fire
Compiled SCAT Division D Overview Map
04/12/2019
The Response Group
Emergency Response | Pre-Planning & Support
Scale: 1:30,000
N
HOUSTON
Santa Anna Bayou
San Jacinto State Park
BROWNWOOD
Baytown Nature Center
WOOSTER
Peggy Lake
Division D
Incident Location
Latitude: 29° 43' 56.3" N
Longitude: 95° 05' 29.3" W
Legend
Incident Location
Division Line
SCAT Lines
Oil Status
Heavy
Medium
Light
Very Light Out On Water
No Oil Observed
0 2,000 4,000 6,000 8,000 10,000 Feet
95°6'0"W
95°5'0"W
95°4'0"W
95°3'0"W
95°2'0"W
29°46'0"N
29°45'0"N
29°44'0"N

© TRG

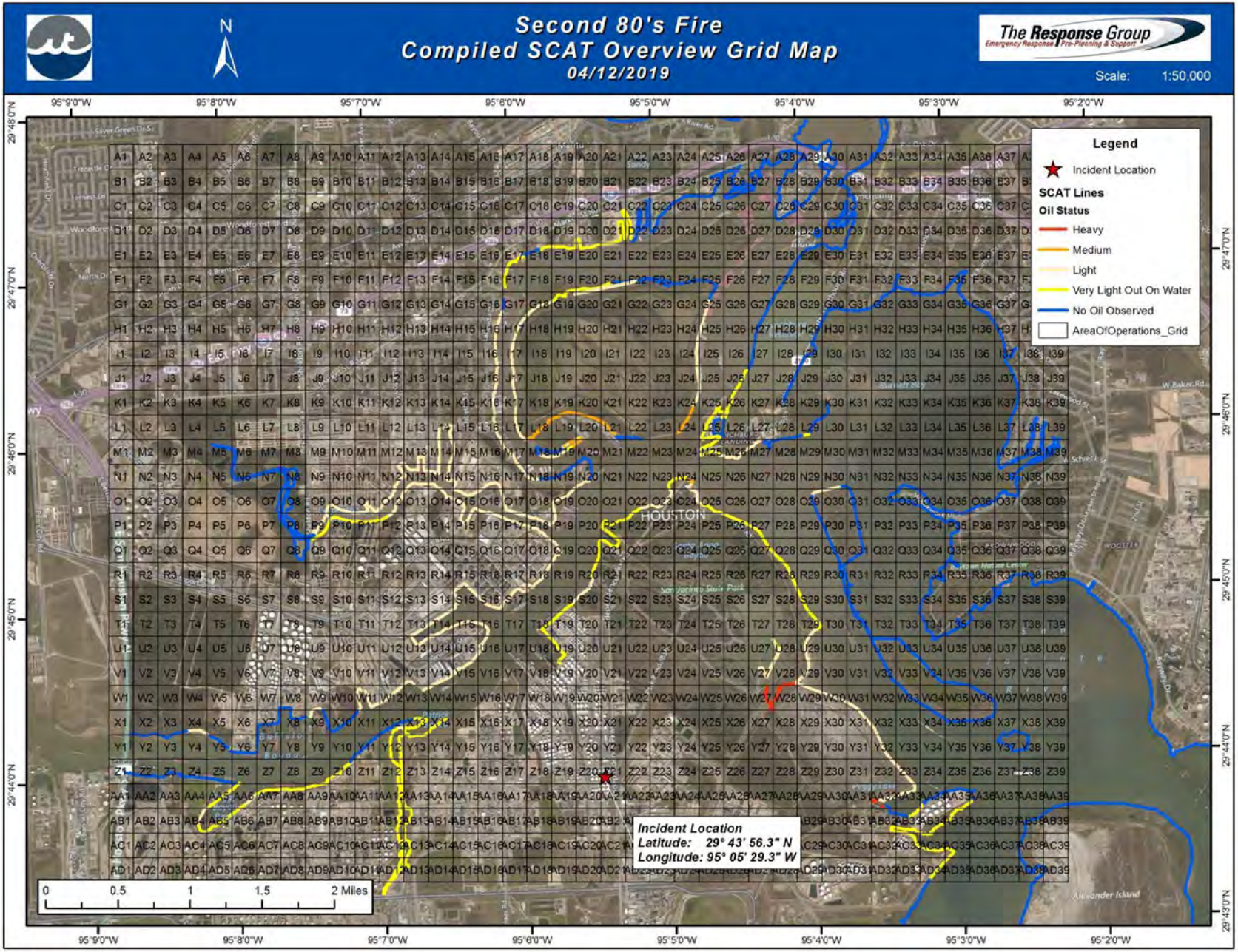

Second 80's Fire
Compiled SCAT Division E Overview Map
04/12/2019
The Response Group
Emergency Response | Pre-Planning & Support
Scale: 1:18,622
N
Incident Location
Latitude: 29° 43' 56.3" N
Longitude: 95° 05' 29.3" W
Division E
Legend
Incident Location
Division Line
SCAT Lines
Oil Status
Heavy
Medium
Light
Very Light Out On Water
No Oil Observed
0 1,000 2,000 3,000 4,000 5,000 Feet
95°7'0"W
95°6'30"W
95°6'0"W
95°5'30"W
95°5'0"W
95°4'30"W
29°45'0"N
29°44'30"N
29°44'0"N
29°43'30"N
Port of Houston Ship Channel
Tucker Bayou
Tidal Rd
Independence Pkwy
Park Road 1836

© TRG

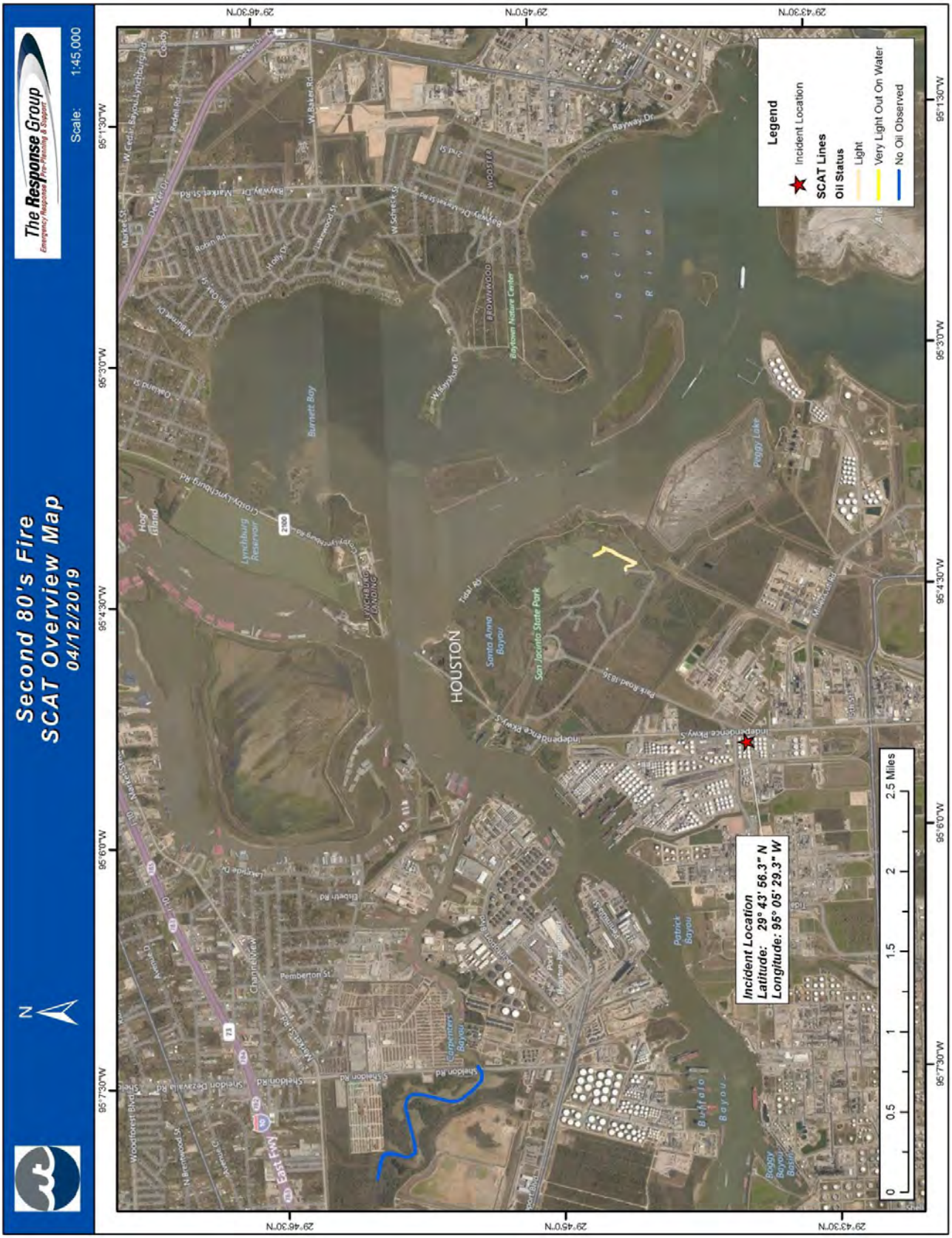
Incident Name: 2nd 80's Fire

Period: Period 15 [04/14/2019 07:00 - 04/17/2019 07:00]

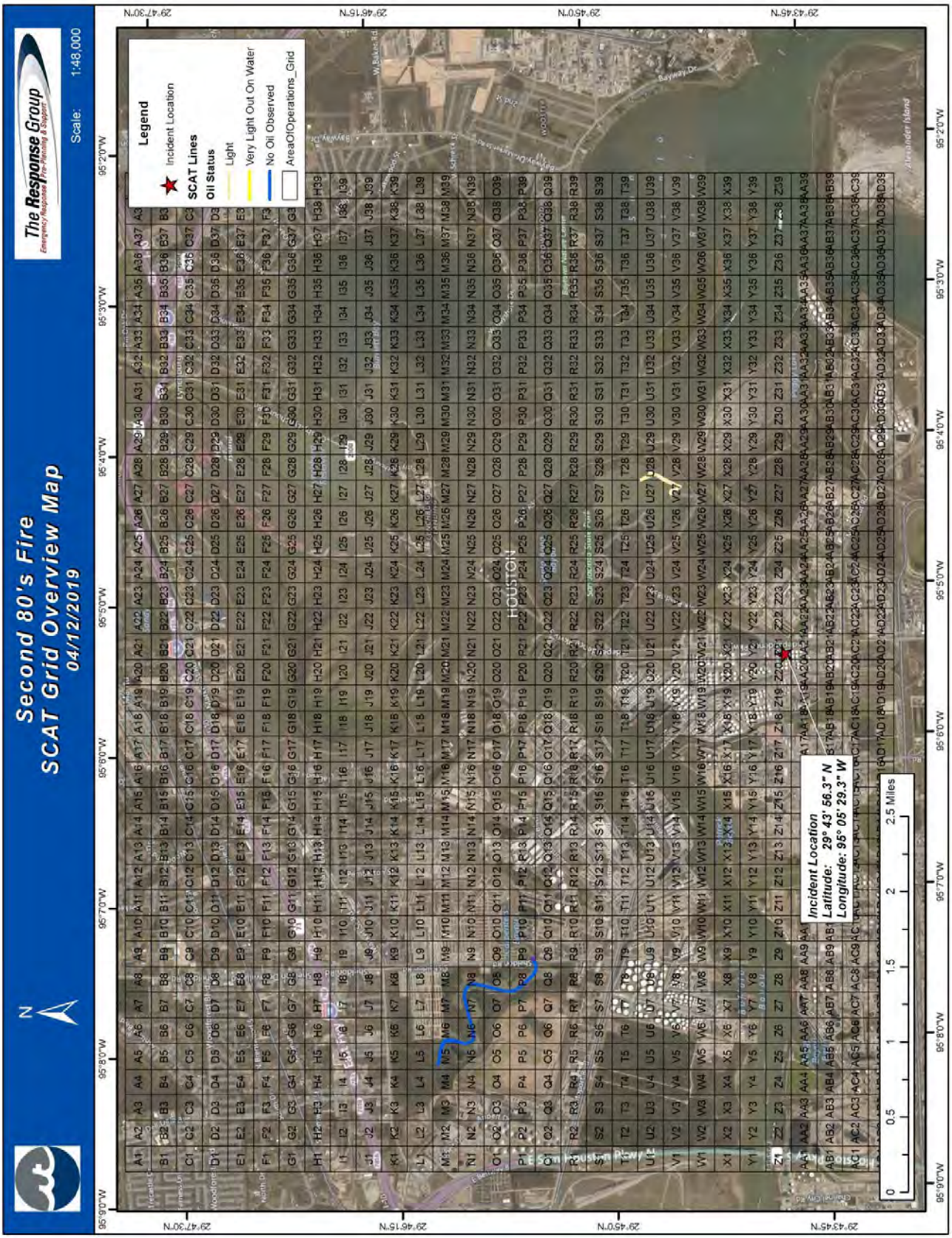
20190412 Compiled SCAT Grid



20190412 SCAT



20190412 SCAT Grid



Operations Personnel

Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Antu, Jason	ITC	281-786-9770	Day Shift
Operations Section Chief	Bargar, Michael	ITC	832-563-7401	Night Shift
Deputy Operations Section Chief (On Land)	Jacobson, Jeff	ITC	713-516-6916	Day Shift
Deputy Operations Section Chief (On Water)	McLelland, Reid	ITC	281-838-7567	Day Shift
Deputy Operations Section Chief (EPA)	Moore, Gary	Environmental Protection Agency	(214) 789-1627	Day Shift
Wildlife Branch Director	Biggs, Heather	Texas Parks and Wildlife	832-654-2845	Day Shift
Deputy Wildlife Branch Director	Murgatroyd, Rhonda	Wildlife Response Services LLC	713-705-5897	Day Shift

Resources Required

Area Of Operation	Resource Kind	Description	Quantity	Size
Wildlife Branch	Small Boat	Small Boat	3	14 - 29 feet
Wildlife Branch	Boat Operator	Boat Operator	3	
Wildlife Branch	Wildlife Specialist	Avian Specialist	4	
Wildlife Branch	Safety Personnel	Air Monitoring Tech	3	
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 Reconnaissance & Recovery

(2) Wildlife Recovery Team and (1) Marine Mammal Monitoring Team (Mammal Monitoring Team = Monday [April 14 only]) 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 Specialist will collect dead wildlife after notification.

Report impacted wildlife to the 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 wildlife found within the areas of operation to the Wildlife Hotline 832-368 5379. Please take photo and document location.

Dead Fish Collection Protocol:
With the proper PPE (tyvek, nitrile gloves, eye protection, etc.) collect dead fish and lay them on the shore on a Visqueen or some other lining. Take pictures of the individual fish (or batch of fish) with a scale ruler (or similar item) in the photo if possible. Provide the # of dead fish per day to the Wildlife Hotline.
If the fish cannot be collected due to skimming operations please note the amount of fish collected, take pictures and document numbers of dead fish per day including collector name and contact information.

If you are aware of undocumented fish counts please relay the information to the Wildlife Number.

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

DO NOT USE THE RESTROOM AT THE STATE PARK. The onsite waste water treatment plant is currently non-operational.

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 air monitoring is conducted frequently in the vicinity of work activity. If Benzene is detected at levels higher than action level, evacuate the area, report to supervisor and Mike Gaudet (281-787-8256).

If entering a hot zone, all equipment and personnel must be decontaminated prior to leaving the hot zone.

Heat stress will continue to be a present hazardous condition for all response activities, All responders shall maintain the appropriate "work-rest" ratios.

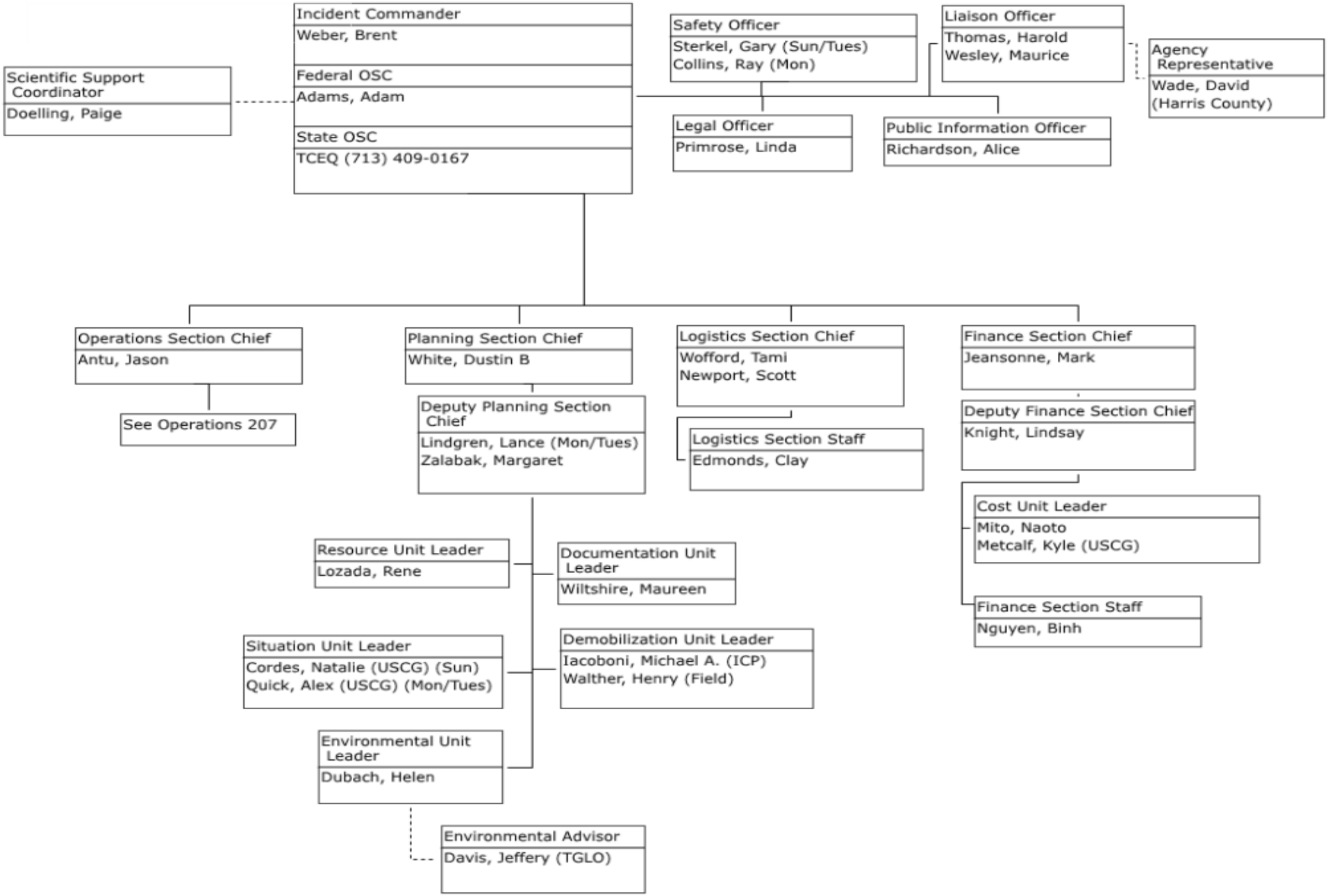
Action Levels for Benzene:

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

Wildlife Rehab Center Map


Incident Commander
Weber, Brent
Federal OSC
Adams, Adam
State OSC
TCEQ (713) 409-0167
Scientific Support Coordinator
Doelling, Paige
Safety Officer
Sterkel, Gary (Sun/Tues)
Collins, Ray (Mon)
Liaison Officer
Thomas, Harold
Wesley, Maurice
Agency Representative
Wade, David (Harris County)
Legal Officer
Primrose, Linda
Public Information Officer
Richardson, Alice
Operations Section Chief
Antu, Jason
See Operations 207
Planning Section Chief
White, Dustin B
Deputy Planning Section Chief
Lindgren, Lance (Mon/Tues)
Zalabak, Margaret
Resource Unit Leader
Lozada, Rene
Documentation Unit Leader
Wiltshire, Maureen
Situation Unit Leader
Cordes, Natalie (USCG) (Sun)
Quick, Alex (USCG) (Mon/Tues)
Demobilization Unit Leader
Iacoboni, Michael A. (ICP)
Walther, Henry (Field)
Environmental Unit Leader
Dubach, Helen
Environmental Advisor
Davis, Jeffery (TGLO)
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
Metcalf, Kyle (USCG)
Finance Section Staff
Nguyen, Binh

OPERATIONS - ON WATER

Operations Section Chief
Antu, Jason

Operations Advisor
Pfannstiel, Bob
Cook, Craig (TGLO)

Asst. Safety Officer
Groman, Craig USCG

Deputy Operations Section Chief
McLelland, Reid
Moore, Gary EPA

Deputy Operations Section Chief
Riedel, Jim
Tillery, Rick

Deputy Operations Section Chief
Surguy, Randy

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

Deputy Recovery & Protection Branch Director
Babin, Everette
USCG
Jones, Kamryn
Segura, Tyler

On Water Decon Group
USCG
Rogers, Wesley

Air Ops Branch Director
Adrian, Thomas
Allen, Bryce

sUAS Team 1
Land, Cassity

sUAS Team 2
Allen, Bryce

sUAS Team 3
Cameron, Chris (Sun)
Barrett, Blake (Mon/Tue)

sUAS Team 4
Evans, Stephen

Air Tactical Group Supv
Rogers, Bob

Water Sampling Group (offsite)
Kubitz, Jody

Waste Group
Blankenship, Tyler

On-Water Air Monitoring Group Supervisor

Wildlife Branch Director
Biggs, Heather

Deputy Wildlife Branch Director
Murgatroyd, Rhonda

Division A
Goins, Derek (AMPOL)
USCG

Division B
Landry, Ashton (AMPOL)
USCG

Jacintoport TF
Babin, Everette
Nichols, Freddie

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

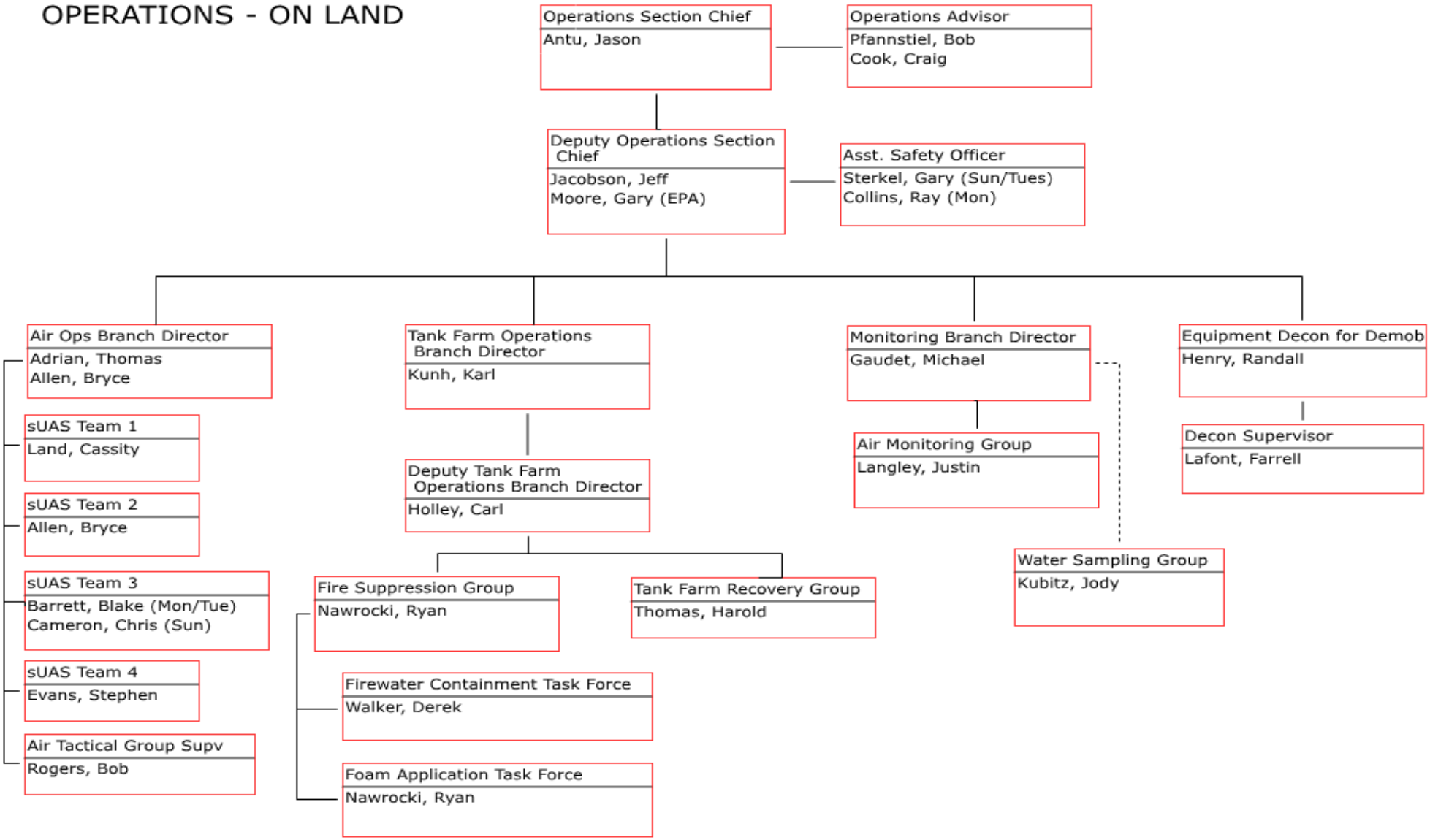
Kirby Decon TF

Division D
Bourque, Delven (AMPOL)
USCG

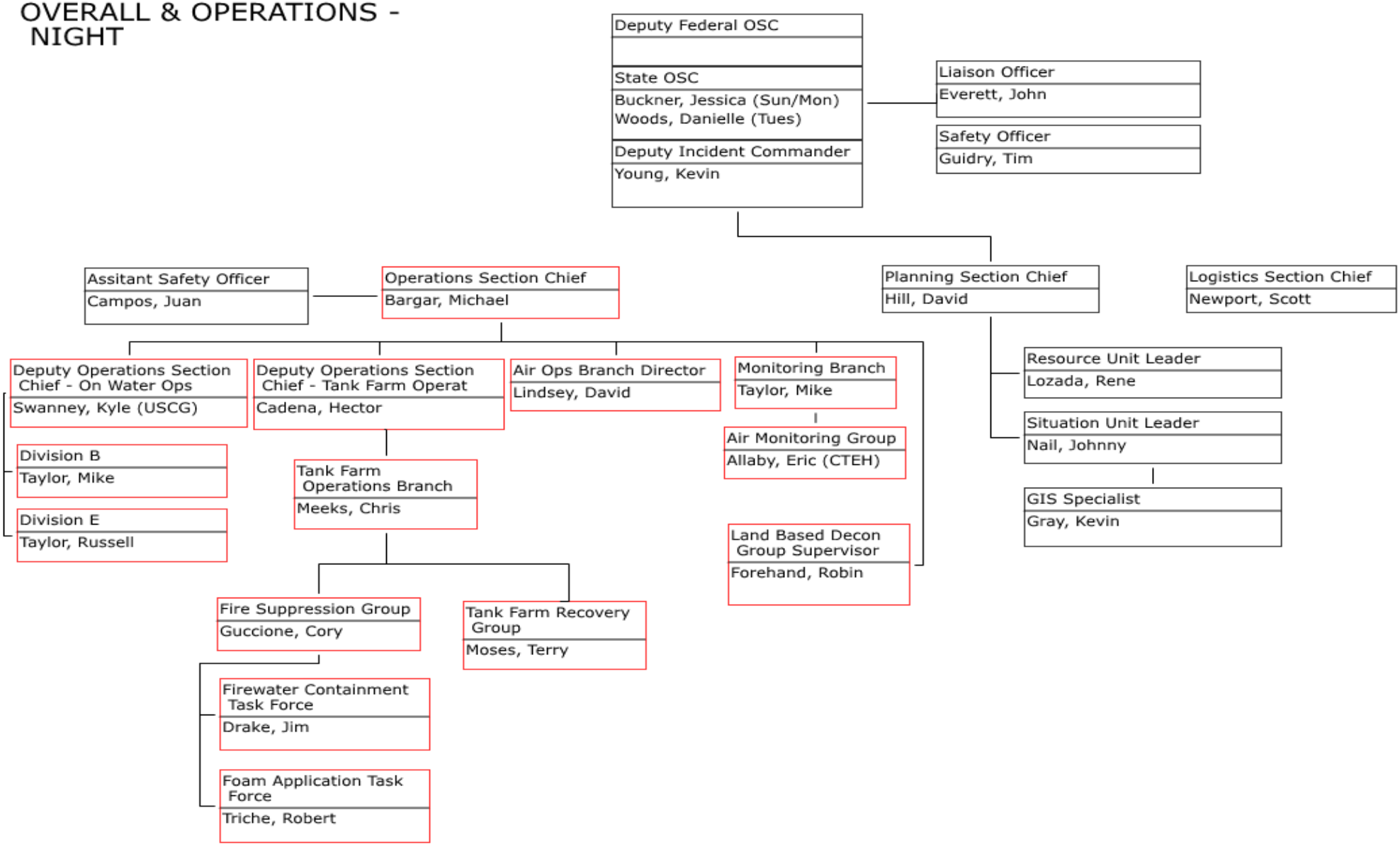
Division E
Jackson, Renyiell (AMPOL)
Fisher, Bray (EPA)
USCG
Willis, Hunter

Protection Group
Dalfrey, Chad (AMPOL)

OPERATIONS - ON LAND



OVERALL & OPERATIONS - NIGHT



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							

Special Radio Instructions

Medical Aid Stations

Name	*Location*	*Paramedic On Site*	*Phone*	*Radio*
On Water: Staging Area - OMI River	-95.10154 29.78214	[x]		
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*
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*
On Water/ICP: Houston Healthcare Southeast	4000 Spencer Hwy Pasadena, TX 77504 -95.18378 29.66124	713-359-1440		15 min	15 min	III	[x]	[ ]
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	[ ]	[ ]

Hospitals

Hospital	*Location*	*Phone*	*Radio*	*Air Travel Time*	*Ground Travel Time*	*Trauma Center*	*Helipad*	*Burn Center*
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.

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.

Medical Aid Stations

Name	*Location*	*Paramedic On Site*	*Phone*	*Radio*
Safety Training Building	-95.09605 29.73362	☐		ITC Mandown Button

Transportation (Ground and/or Air Ambulance Services)

Ambulance Service	*Location*	*Phone*	*Radio*	*Air*	*ALS*
Deer Park Volunteer Fire Department	Deer Park, TX	Ph1: (281) 476-1511		☐	☐

Hospitals

Hospital	*Location*	*Phone*	*Radio*	*Air Travel Time*	*Ground Travel Time*	*Trauma Center*	*Helipad*	*Burn Center*
CHI St. Luke's Patients Medical Center	4600 East Sam Houston Parkway South Pasadena, TX 77505 -95.16227 29.64113	713-378-8994 281-487-0700				II	☐	☐
HCA-Bayshore Medical Center	4000 Spencer Hwy Pasadena, TX 77504 -95.18378 29.66124	713-359-1060 713-359-1000				II	☐	☐
Altus Baytown Hospital	1626 W Baker Rd Baytown, TX 77521 -94.98169 29.77128	281-382-1627 281-837-7600					☒	☐

Special Medical Emergency Procedures

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:

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.

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

Medical Aid Stations

Name	*Location*	*Paramedic On Site*	*Phone*	*Radio*
Land Based Decon	15902 Peninsula Street Houston, TX -95.11894 29.74195	[x]	Ph1: (832) 210-4279	

Transportation (Ground and/or Air Ambulance Services)

Ambulance Service	*Location*	*Phone*	*Radio*	*Air*	*ALS*
Channel View Fire Dept	Channel View, TX -95.11465 29.77606	Ph1: 911 / (281) 452-5782		[ ]	[ ]
Acadian Ambulance Supervisor 470	-95.10154 29.78214	Ph1: (832) 210-4279		[ ]	[x]

Hospitals

Hospital	*Location*	*Phone*	*Radio*	*Air Travel Time*	*Ground Travel Time*	*Trauma Center*	*Helipad*	*Burn Center*
Memorial Herman Hospital SE	11800 Astoria Blvd Houston, TX -95.20788 29.58225	281-929-6485		15 min	30 min	I	[x]	[ ]
Houston Healthcare Southeast	4000 Spencer Hwy Pasadena, TX 77504 -95.18378 29.66124	713-359-1440		15 min	15 min	III	[x]	[ ]
UTMB	3737 Red Bluff Rd #150 Pasadena, TX 77503 -95.15567 29.68583	409-772-2002		15 min	15 min	I	[x]	[x]
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]	[ ]
Houston Methodist Baytown	4401 Garth Road Baytown, TX 77521 -94.9796 29.76916	281-420-8851 281-420-8600		15 min	30 min		[x]	[ ]
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	[ ]	[ ]

Hospitals

Hospital	*Location*	*Phone*	*Radio*	*Air Travel Time*	*Ground Travel Time*	*Trauma Center*	*Helipad*	*Burn Center*
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 at site if necessary.

Decon Site:

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.