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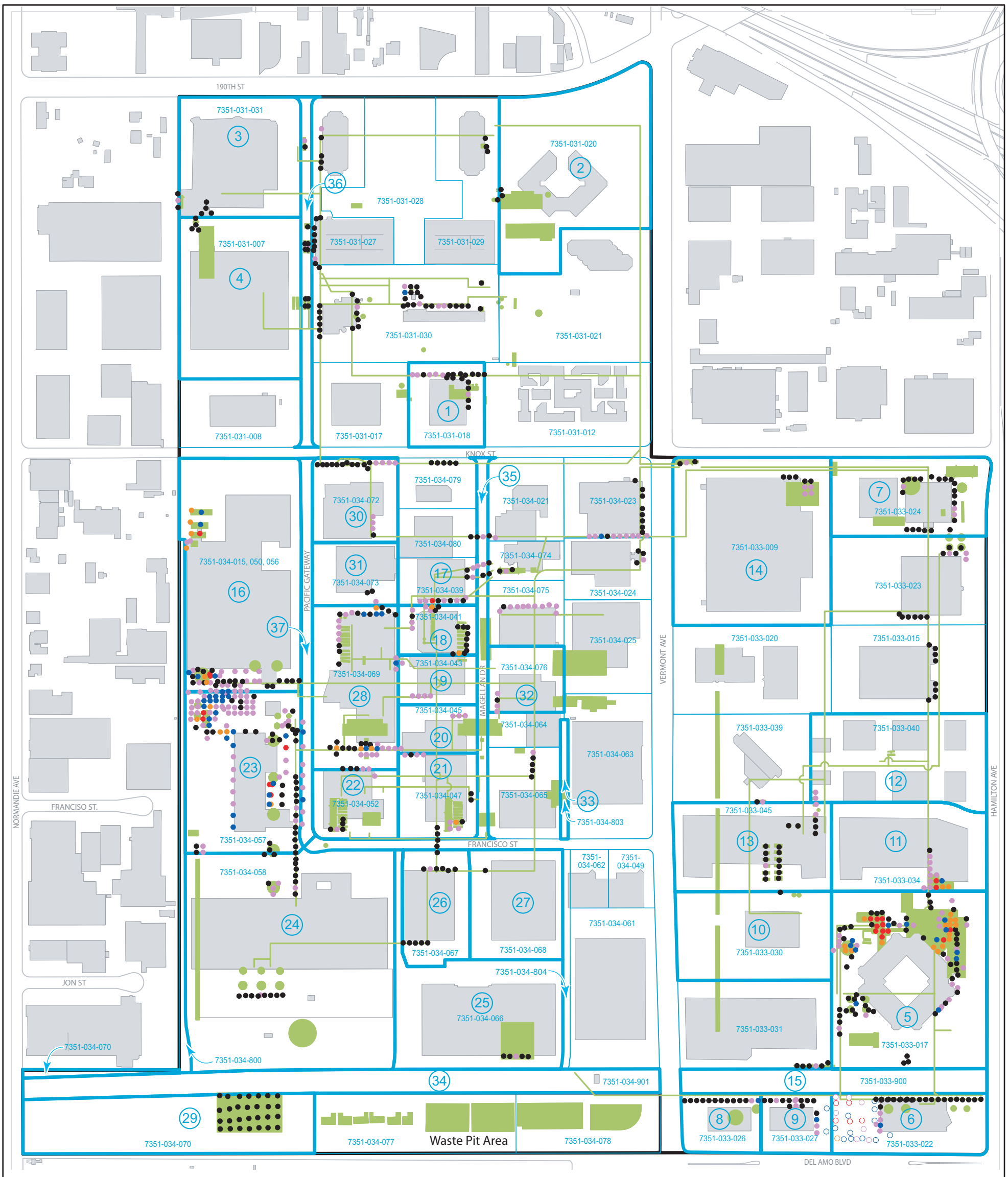

Legend

Filled symbol represents RI/FS location;
Open symbol represents non-RI/FS location

- ● ○ Shallow soil gas sampling location where total VOCs were not detected
- ● ○ Shallow soil gas sampling location where total VOCs were detected at a concentration of <5 ppmv
- ● ○ Shallow soil gas sampling locations where total VOCs were detected at a concentration of ≥5 ppmv but <50 ppmv
- ● ○ Shallow soil gas sampling locations where total VOCs were detected at concentrations of ≥50 ppmv but <500 ppmv
- ● ○ Shallow soil gas sampling locations where total VOCs were detected at a concentration of ≥500 ppmv
- Current building footprint
- Former rubber plant facilities and features evaluated as part of the RI
- (29) Exposure area of potential concern with exposure area number
- 7351-034-070 Assessor parcel number

N

0 400 800
Scale in Feet

FIGURE 13

TOTAL VOC CONCENTRATIONS AT SHALLOW SOIL GAS SAMPLING LOCATIONS

Baseline Risk Assessment
Del Amo Superfund Site

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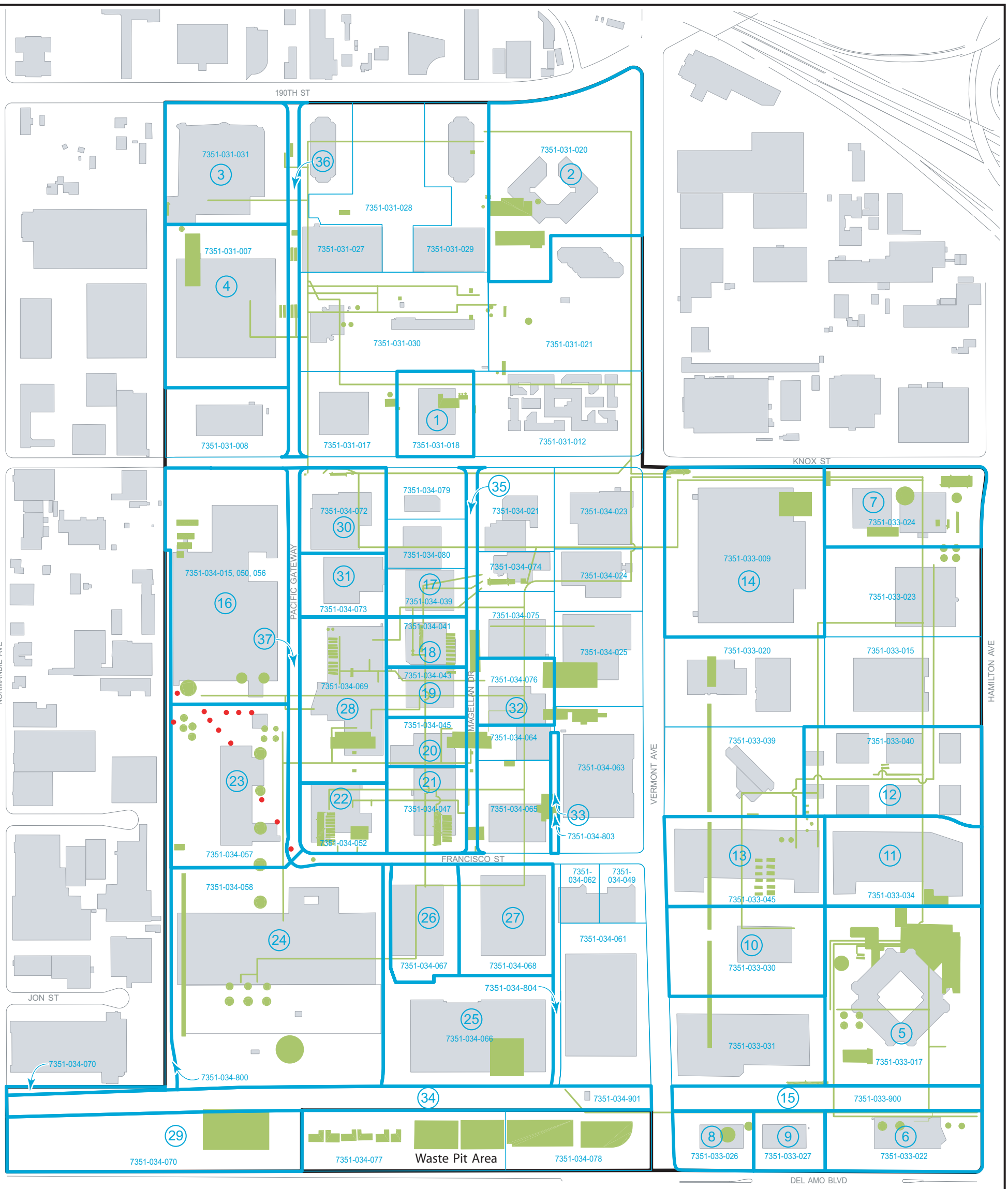

Legend

- Deep soil gas sampling location where total VOC concentration is greater than 500 ppmv
- Current building footprint
- Former rubber plant facilities and features evaluated as part of the RI
- (29) Exposure area of potential concern with exposure area number
- 7351-034-070 Assessor parcel number

Note: Total VOC concentrations were greater than 500 ppmv at all deep soil gas sampling locations

FIGURE 14

TOTAL VOC CONCENTRATIONS IN DEEP SOIL GAS SAMPLES

Baseline Risk Assessment
Del Amo Superfund Site

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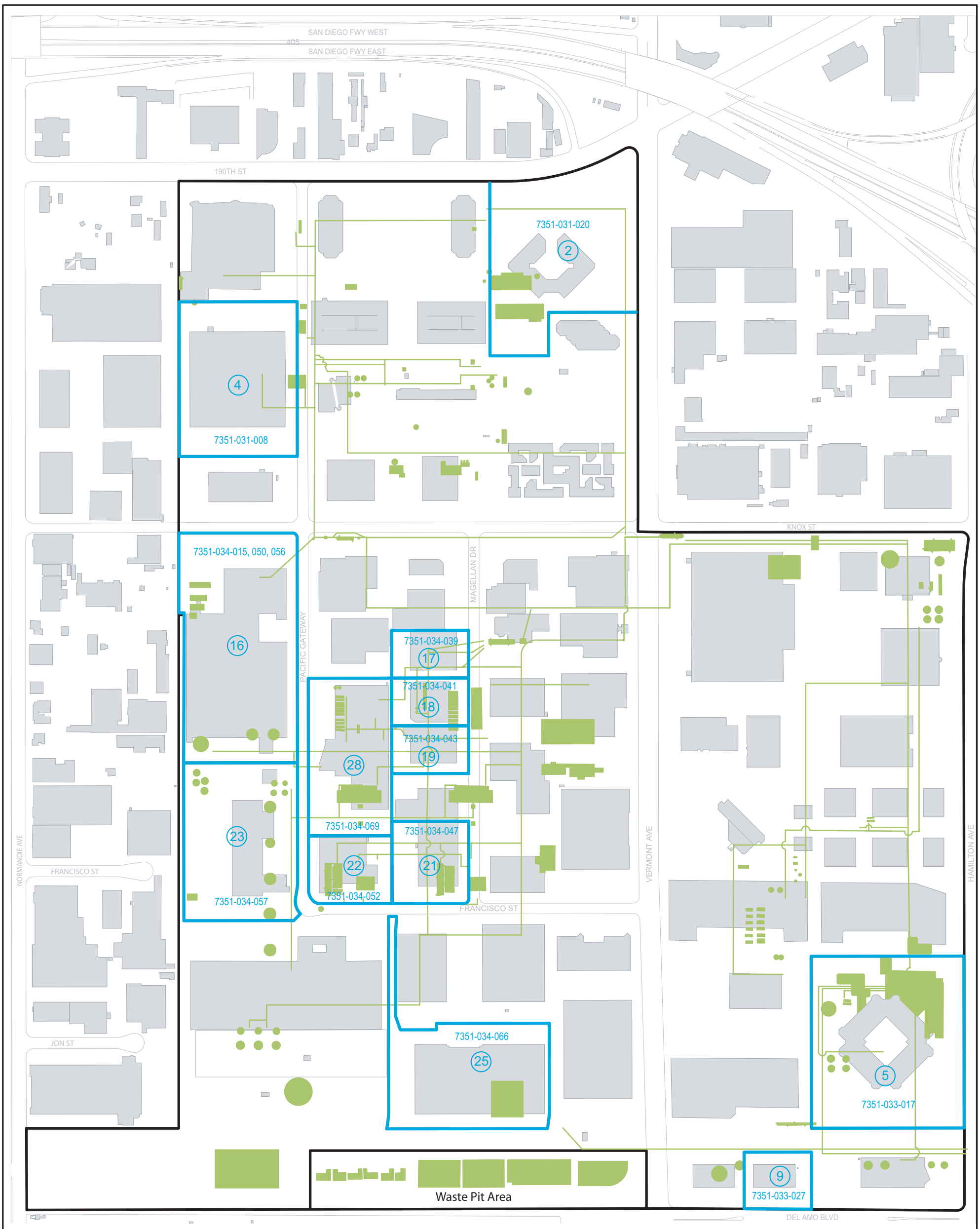

Legend

Former rubber plant facilities and features evaluated as part of the RI

4 Parcel with building where workplace air monitoring was conducted and exposure area number

7351-034-070 Assessor parcel number

N

0 400 800

Scale in Feet

FIGURE 15

INDOOR AIR MONITORING LOCATIONS

Baseline Risk Assessment
Del Amo Superfund Site

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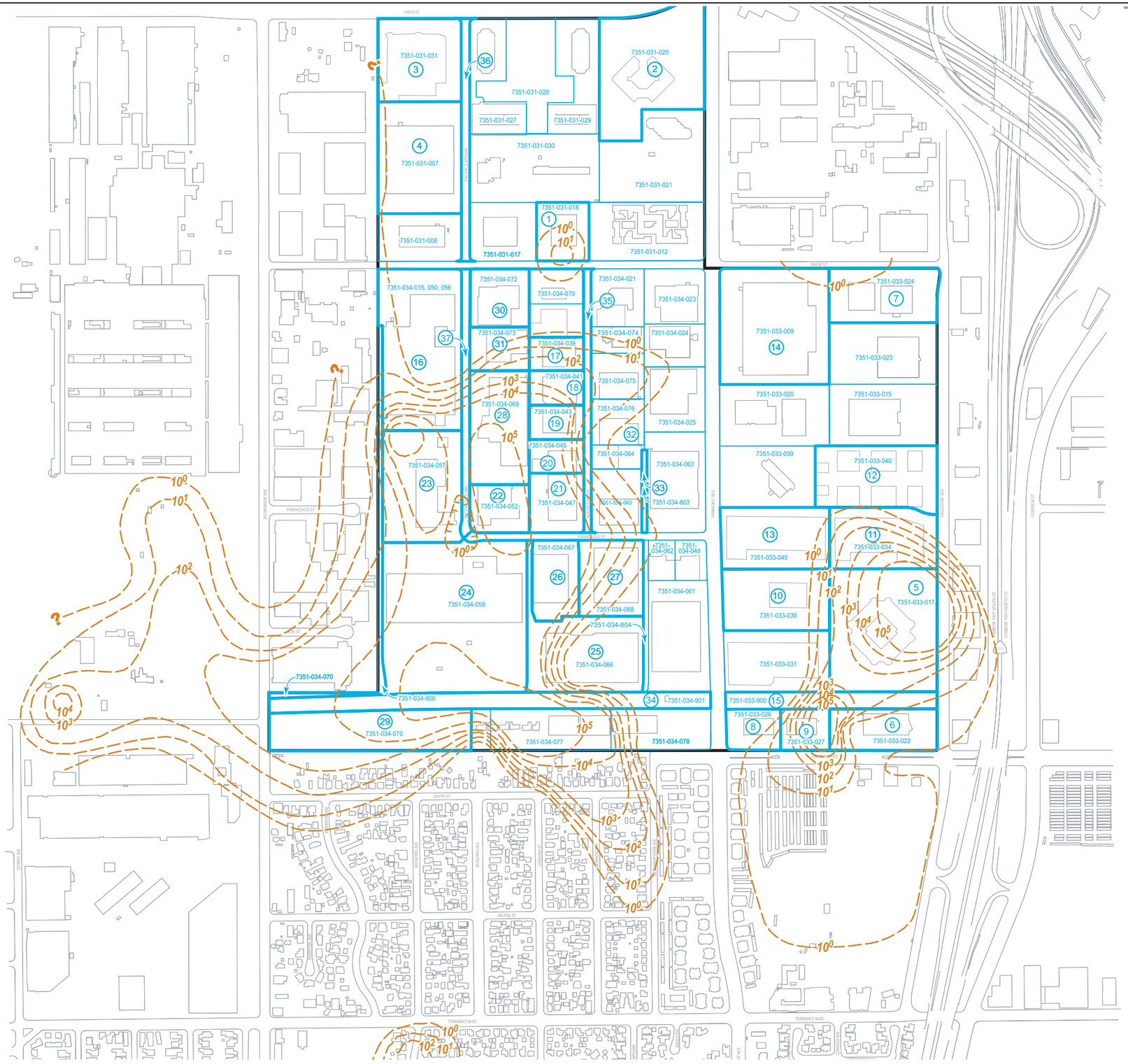

N

0 600 1200

Scale in Feet

Legend

10^3 Benzene concentration isopleth (µg/L)

29 Exposure area of potential concern with exposure area number

7351-034-070 Assessor parcel number

FIGURE 16

DISSOLVED BENZENE CONCENTRATIONS WATER TABLE ZONE

Baseline Risk Assessment
Del Amo Superfund Site

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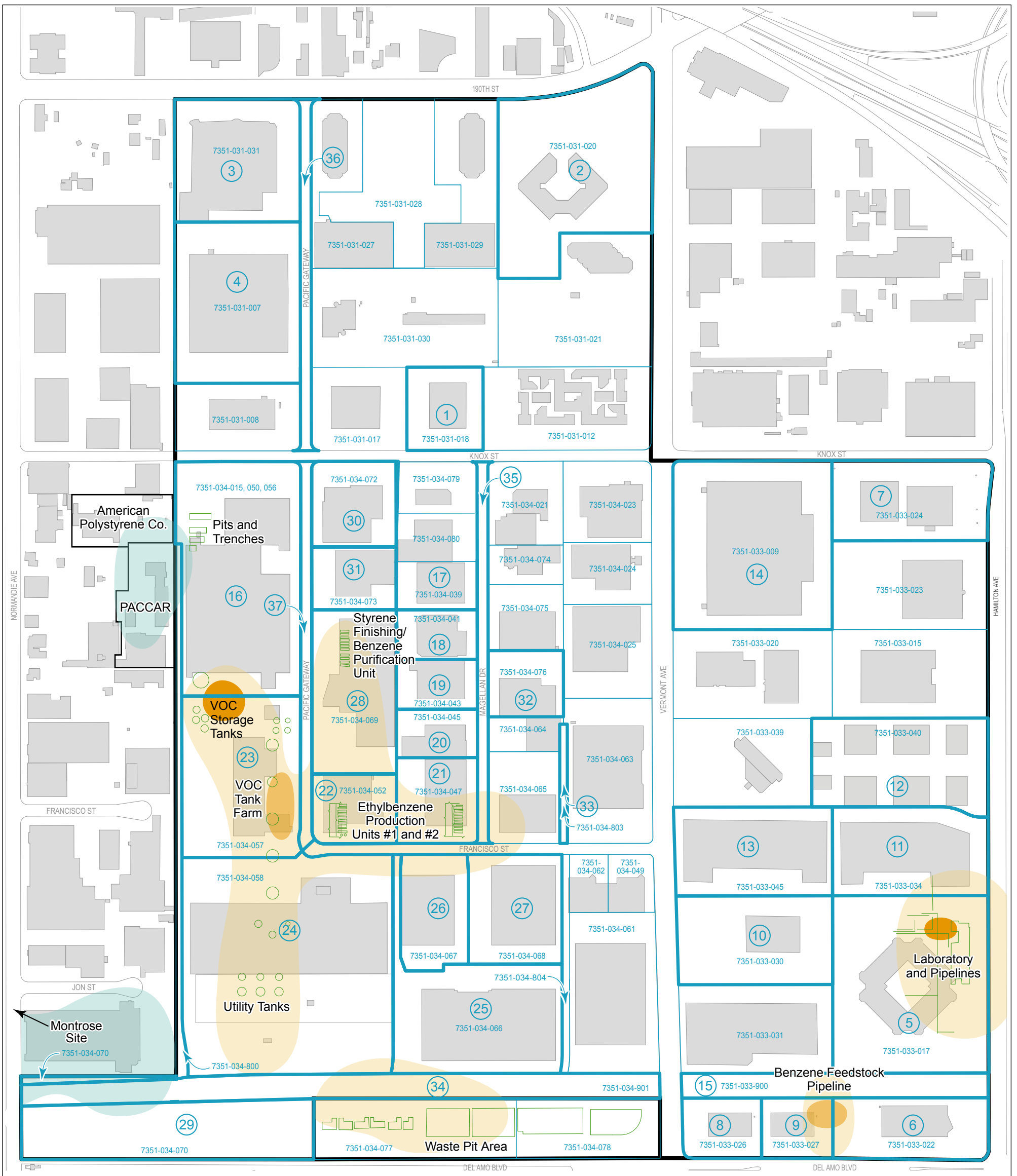

Legend

- Area where DNAPL is potentially present based on dissolved concentrations of TCE and/or PCE concentrations in excess of 1% of their respective solubilities within the water table zone
- Area where LNAPL has not been observed, but could potentially be present based on dissolved concentrations of benzene and/or ethylbenzene in excess of 5% of their respective solubilities within the water table zone
- Area where LNAPL has been observed at residual saturations, but has not accumulated within a water table monitoring well or temporary well point
- Area where visible LNAPL accumulations occur within one or more water table monitoring wells or temporary well points
- Historical rubber plant VOC facilities that may be associated with NAPL
- (29) Exposure area of potential concern with exposure area number
- 7351-034-070 Assessor parcel number

FIGURE 17

POTENTIAL AND KNOWN NAPL AREAS

Baseline Risk Assessment
Del Amo Superfund Site

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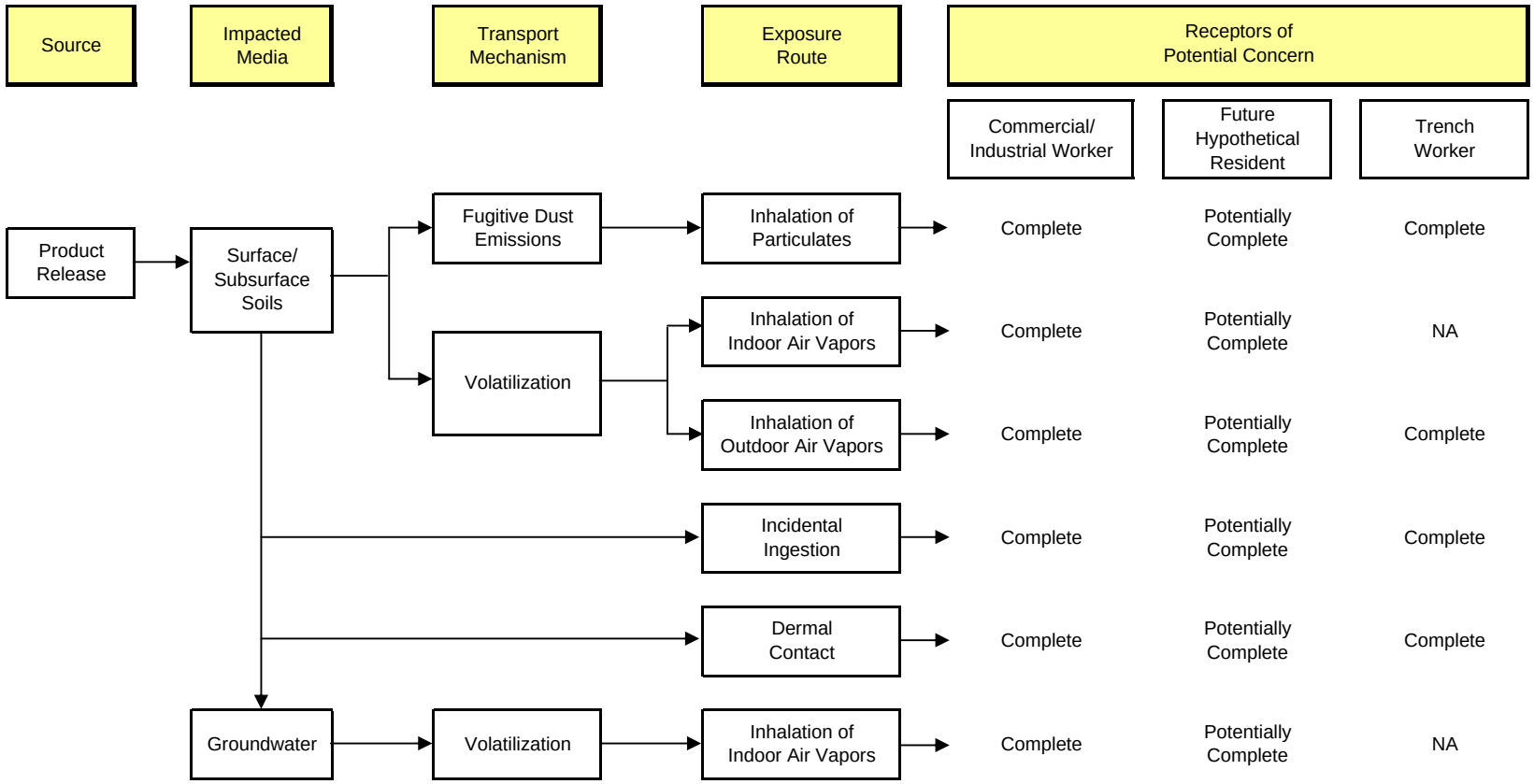
FIGURE 18
CONCEPTUAL SITE MODEL
BASELINE RISK ASSESSMENT
DEL AMO SITE



Note:

"NA" Not Applicable

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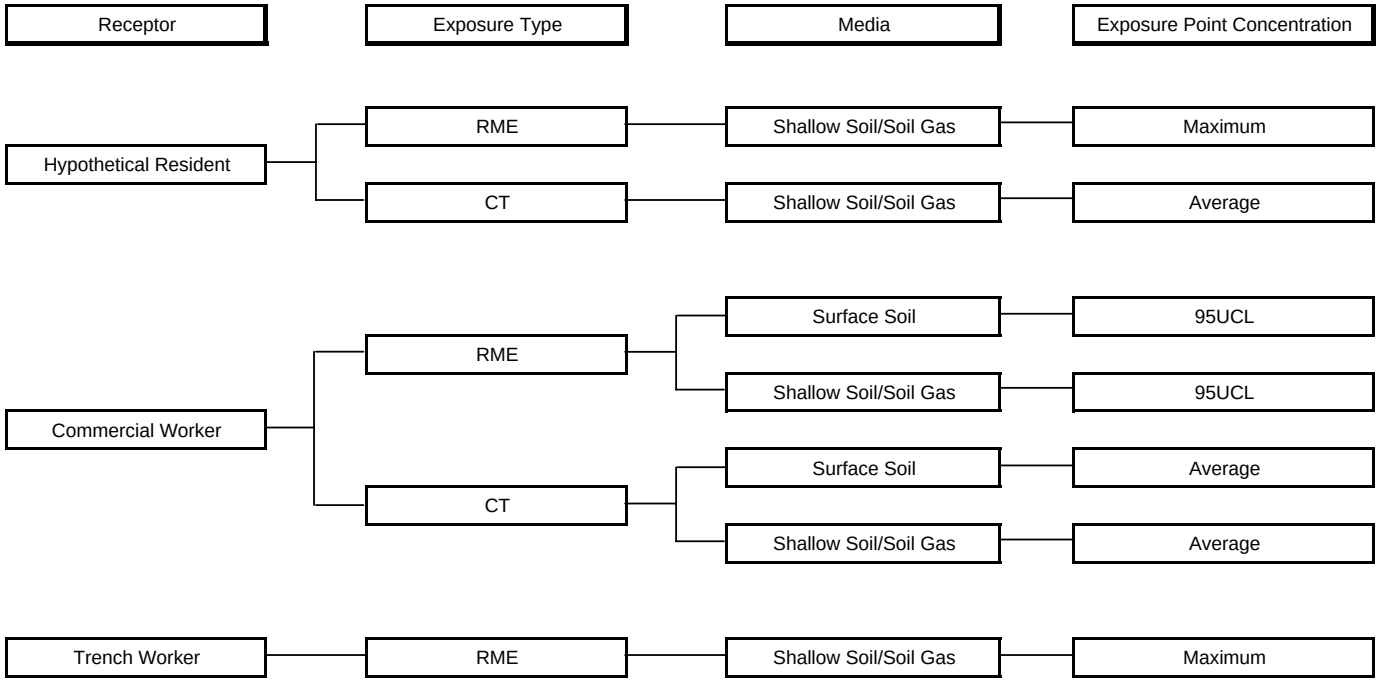
FIGURE 19a
DATA USE FOR THE OUTDOOR SOIL PATHWAY
BASELINE RISK ASSESSMENT
DEL AMO SITE



Notes:

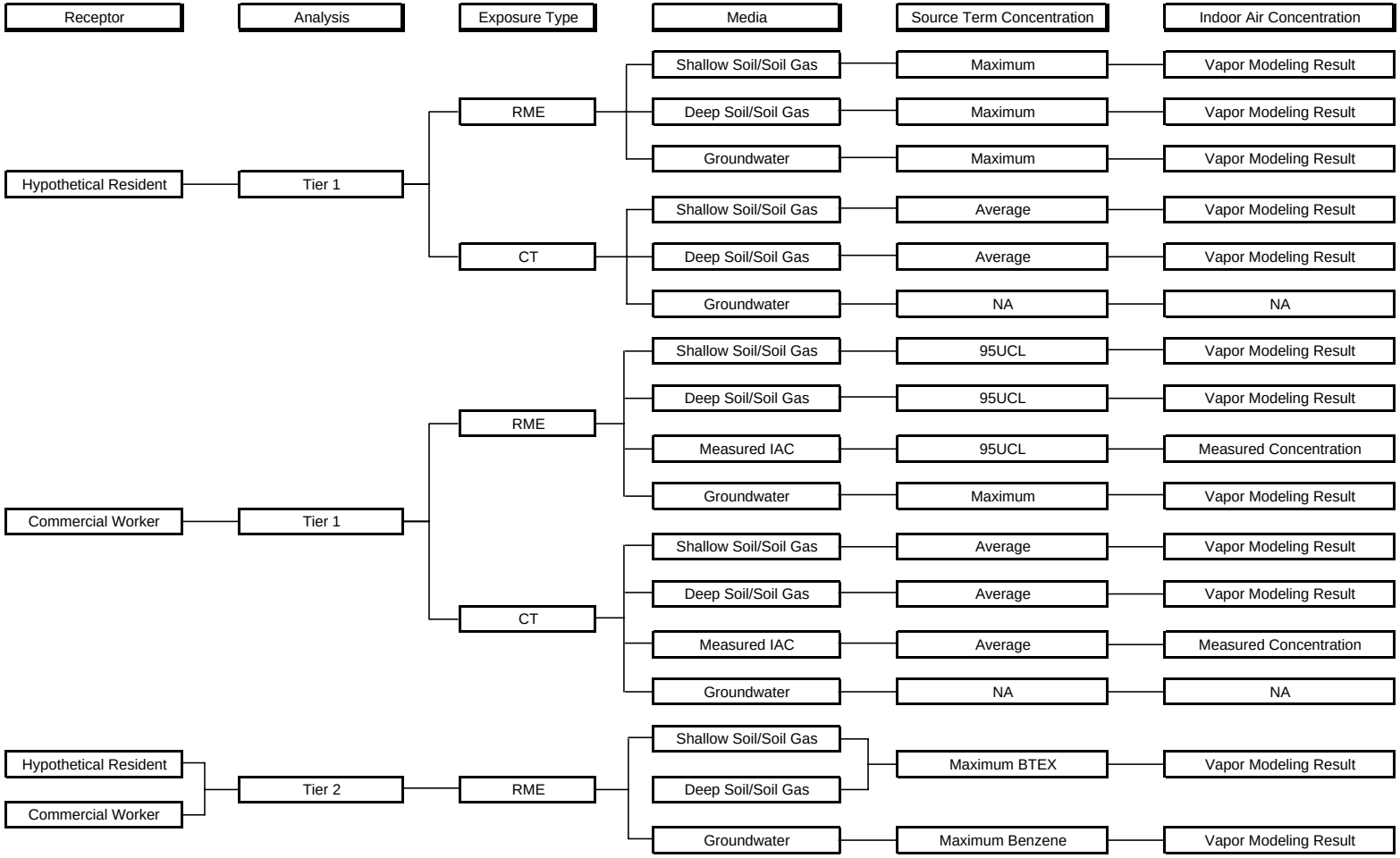
"NA" Not Applicable

"95UCL" 95 percent Upper Confidence Limit of the arithmetic mean

"RME" Reasonable Maximum Exposure; "CT" Central Tendency Exposure

Outdoor Soil Pathway includes Incidental Soil Ingestion, Dermal Contact, and Outdoor Air Inhalation of particulate/VOCs

FIGURE 19b
DATA USE FOR THE INDOOR AIR PATHWAY
BASELINE RISK ASSESSMENT
DEL AMO SITE



Notes:
"NA" Not Applicable; "IAC" Measured Indoor Air Concentration Data
"95UCL" 95 percent Upper Confidence Limit of the arithmetic mean
"RME" Reasonable Maximum Exposure; "CT" Central Tendency Exposure
"BTEX" benzene, toluene, ethylbenzene, and xylene

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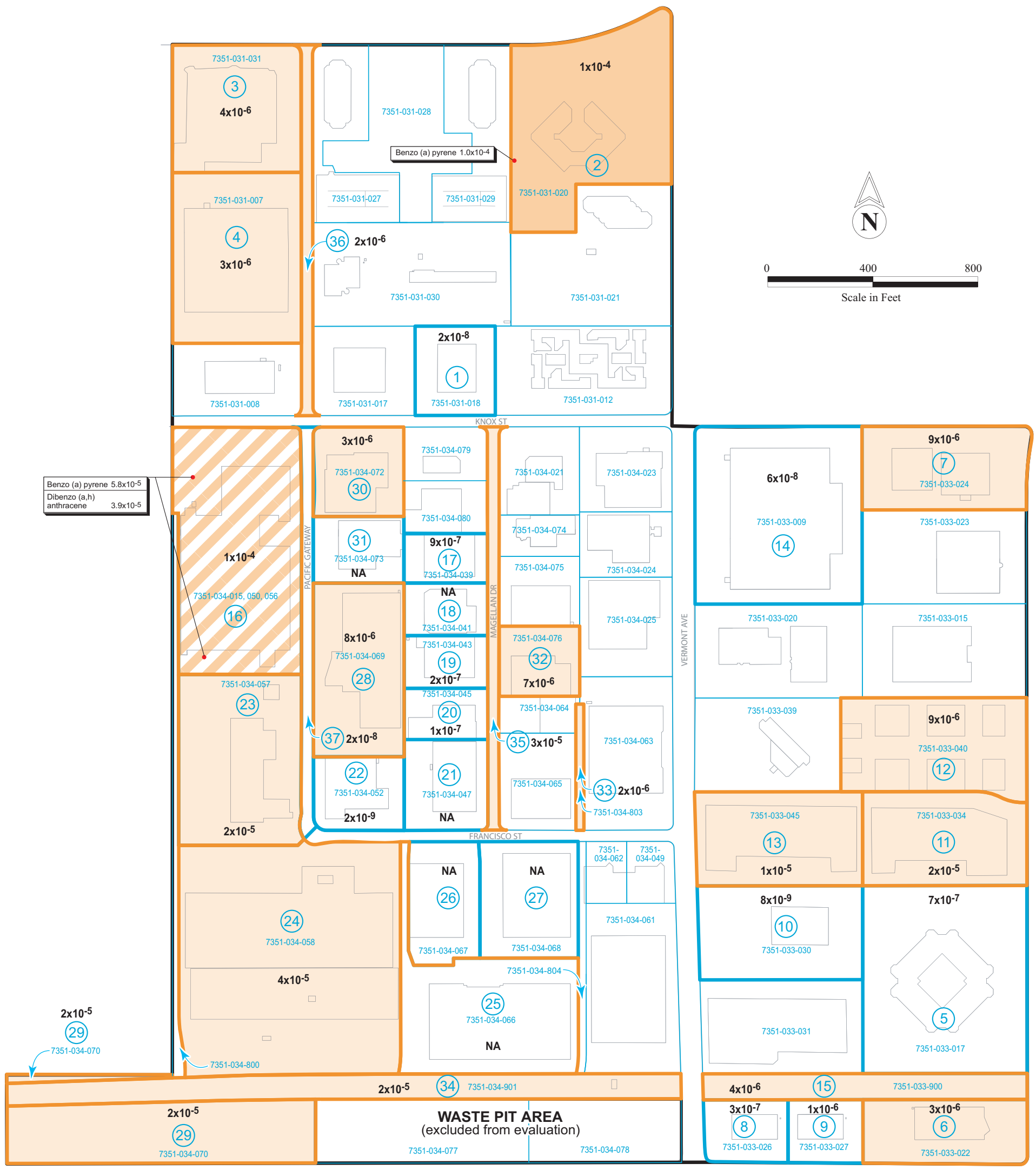

Legend

1x10-4	EAPC where outdoor soil risk is >5x10-5. Risk value posted.
1x10-4	EAPC where outdoor soil risk is >5x10-5 but is suspect due to elevated detection limits for risk-driving chemicals. Risk value posted.
3x10-6	EAPC where risk is >1x10-6 but ≤5x10-5. Risk value posted.
6x10-8	EAPC where risk is ≤1x10-6. Risk value posted.
Benzo (a) pyrene 3.9x10-5	Risk-driving sampling locations at EAPCs where risk >5x10-5. Risk-driving chemicals posted with their respective risk contributions. The total EAPC risk is derived by summing the risk contribution from all COPCs.
NA	Not applicable; no COPCs selected
7351-034-070	Assessor parcel number
25	EAPC number

Receptor	Pathway	Reasonable Maximum Exposure			
		EAPCs with Hazard >1	EAPCs with Risk >10-4	EAPCs with Risk >5x10-5 but ≤10-4	EAPCs with Risk >10-6 but ≤5x10-5
Commercial Worker	Outdoor Shallow Soil	—	—	2, 16	3, 4, 6, 7, 11, 12, 13, 15, 23, 24, 28, 29, 30, 32, 33, 34, 35, 36

FIGURE 20

EAPCs WITH ELEVATED RME RISK FOR OUTDOOR SOIL AND COMMERCIAL WORKER

Baseline Risk Assessment
Del Amo Superfund Site

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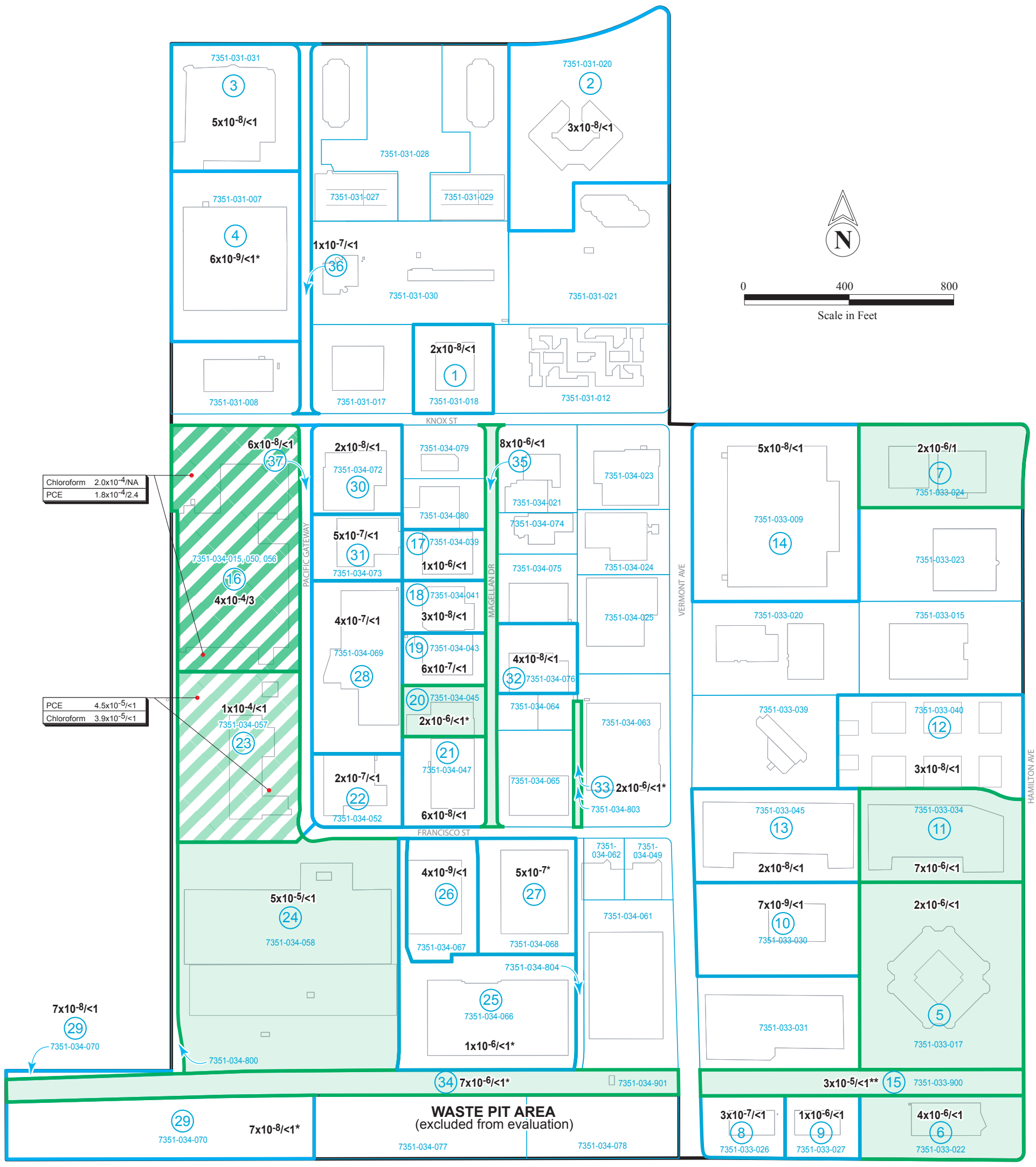

Legend

4x10-4/3	EAPC where indoor air risk/hazard is >10-4/1 but is suspect due to elevated detection limits for risk/hazard-driving compounds. Risk/hazard values posted.
1x10-4/1	EAPC where indoor air risk is >5x10-5 but ≤10-4 and is suspect due to elevated detection limits for risk/hazard-driving compounds. Risk/hazard values posted.
2x10-6/<1	EAPC where indoor air risk is >1x10-6 but ≤5x10-5 and hazard is <1.
4x10-7	EAPC where indoor air risk is ≤1x10-6 and hazard is <1. Risk/hazard values posted.
PCE 4.5x10-5/NA (Tier 1) Chloroform 3.9x10-5/2 (Tier 1)	Risk/hazard-driving chemicals with their associated risk/hazard contribution for EAPCs where risk/hazard is >5x10-5/1. The total EAPC risk is derived by summing the risk contribution from all COPCs.
*	Indoor air risk/hazard value based on modeling of deep soil data
**	Indoor air risk/hazard value based on modeling of groundwater data
NA	Not applicable; no COPCs selected
7351-034-070	Assessor parcel number
25	EAPC number

Receptor	Pathway	Reasonable Maximum Exposure			
		EAPCs with Hazard >1	EAPCs with Risk >10-4	EAPCs with Risk >5 x10-5 but ≤10-4	EAPCs with Risk >1 x10-6 but≤5x10-5
Commercial Worker	Indoor Air - Modeled	16	16	23	5, 6, 7, 11, 15, 20 24, 33, 34 35

Note:
Indoor air risk/hazard value based on modeling of shallow soil/soil gas data except as indicated otherwise

FIGURE 21

EAPCs WITH ELEVATED RME RISK/ HAZARD FOR INDOOR AIR AND COMMERCIAL WORKER USING MODELING

Baseline Risk Assessment
Del Amo Superfund Site

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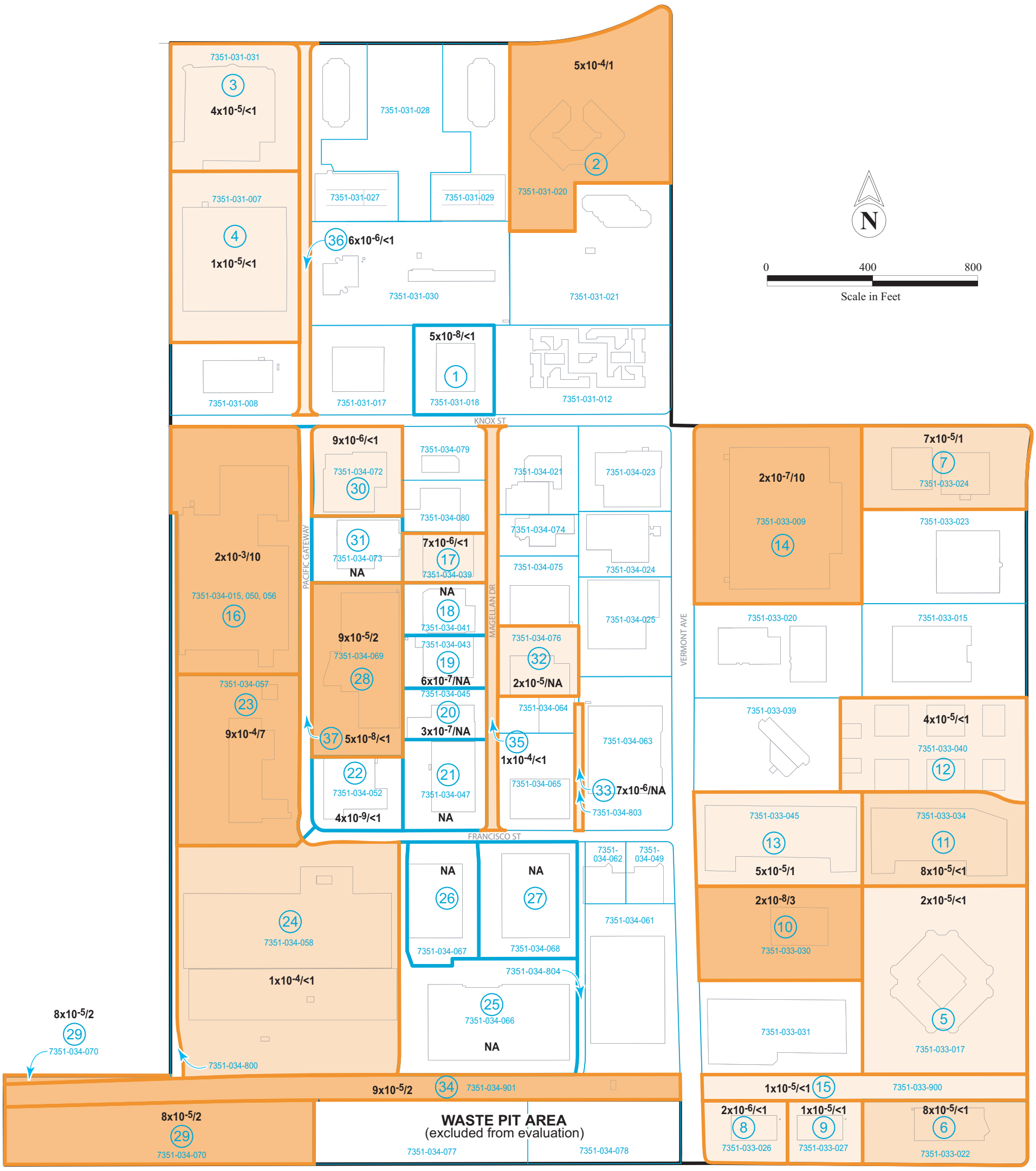

Legend

2x10-3/10	EAPC where outdoor soil risk is >10^{-4} and/or hazard index is>1. Risk value and hazard index posted.
8x10-5/<1	EAPC where outdoor soil risk is >$5x10^{-5}$ but ≤10^{-4}. and hazard index is <1. Risk value and hazard index posted.
2x10-6/<1	EAPC where outdoor soil risk is >10^{-6} but ≤$5x10^{-6}$ and hazard index is <1. Risk value and hazard index posted.
5x10-8/<1	Exposure area of potential concern (EAPC) where risk is ≤10^{-6} and hazard index is<1. Risk value and hazard index posted.
NA	Not applicable; no COPCs identified
7351-034-070	Assessor parcel number
25	EAPC number

Receptor	Pathway	Reasonable Maximum Exposure			
		EAPCs with Hazard >1	EAPCs with Risk >10^{-4}	EAPCs with Risk >$5x10^{-5}$ but ≤10^{-4}	EAPCs with Risk >10^{-6} but ≤$5x10^{-5}$
Hypothetical Resident	Outdoor Shallow Soil	10,14,16,23, 28,29,34	2,16,23	6,7,11,24, 28,29,34,35	3,4,5,8,9,12,13, 15,17,30,32,33,36

FIGURE 22

EAPCs WITH ELEVATED RME RISK FOR OUTDOOR SOIL AND HYPOTHETICAL RESIDENT

Baseline Risk Assessment
Del Amo Superfund Site

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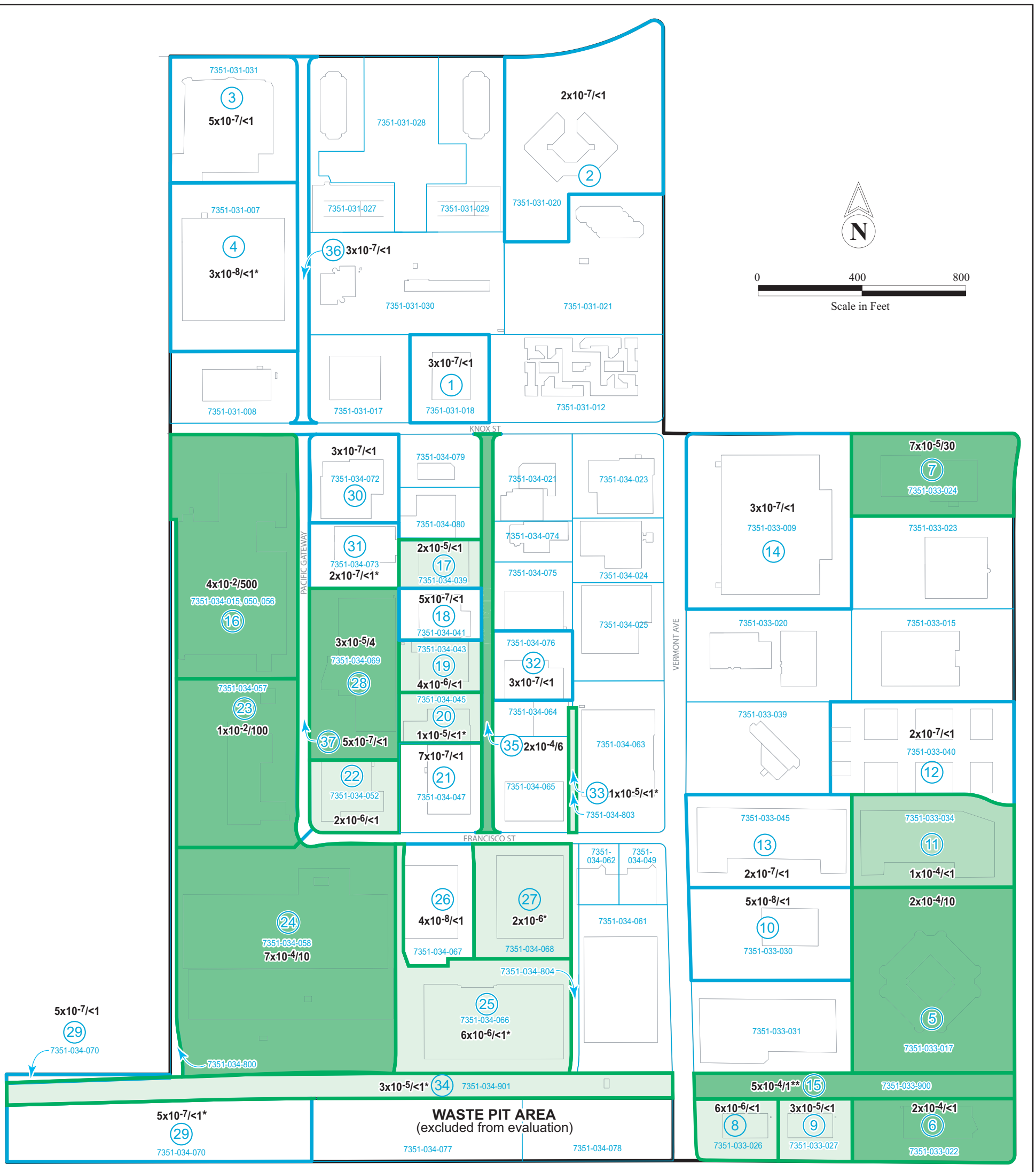

Legend

7x10-4/10	EAPC where indoor air risk is >10^{-4} and/or hazard index is >1. Risk value and hazard index posted.
1x10-4/<1	EAPC where indoor air risk is >$5x10^{-5}$ but ≤10^{-4} and hazard index is ≤1. Risk value and hazard index posted.
4x10-6/<1	EAPC where indoor air risk is >10^{-6} but ≤$5x10^{-5}$ and hazard index is ≤1. Risk value and hazard index posted.
1x10-7/<1	Exposure area of potential concern (EAPC) where indoor air risk is <10-6 and hazard index is ≤1. Risk value and hazard index posted.
*	Indoor air risk/hazard value based on modeling of deep soil data
**	Indoor air risk/hazard value based on modeling of groundwater data
NA	Not applicable; no COPCs identified
7351-034-070	Assessor parcel number
25	EAPC number

Receptor	Pathway	Reasonable Maximum Exposure			
		EAPCs with Hazard >1	EAPCs with Risk >10^{-4}	EAPCs with Risk >$5x10^{-5}$ and ≤ 10^{-4}	EAPCs with Risk >10^{-6} and ≤$5x10^{-5}$
Hypothetical Resident	Indoor Air	5, 7, 16, 23, 24, 28, 35	5, 6, 15, 16, 23, 24,35	7,11	8, 9, 17, 19, 20, 22 25, 27, 28, 33, 34

Note:
Indoor air risk/hazard value based on modeling of shallow soil/soil gas data except as indicated otherwise

FIGURE 23

EAPCs WITH ELEVATED RME RISK FOR INDOOR AIR AND HYPOTHETICAL RESIDENT USING MODELING

Baseline Risk Assessment
Del Amo Superfund Site

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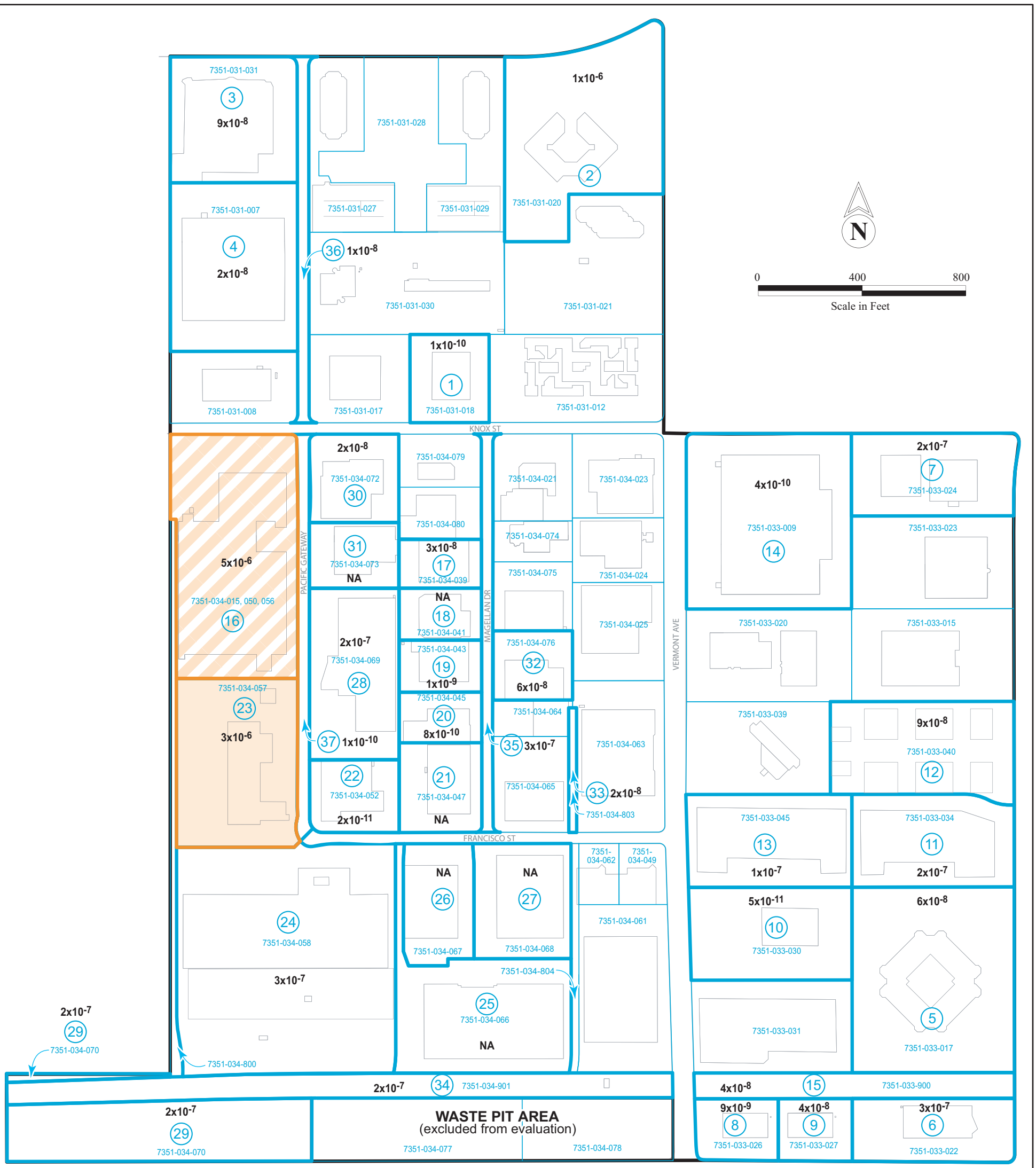

Legend

3x10-6	EAPC where outdoor soil risk is >10-6 but ≤5x10-5. Risk value posted.
5x10-6	EAPC where outdoor soil risk is >10-6 but ≤5x10-5; risk value is suspect due to elevated detection limits for risk-driving chemicals.
3x10-6	Exposure area of potential concern (EAPC) where risk is ≤10-6. Risk value posted.
NA	Not applicable; no COPCs identified
7351-034-070	Assessor parcel number
25	EAPC number

Receptor	Pathway	Reasonable Maximum Exposure			
		EAPCs with Hazard >1	EAPCs with Risk >10-4	EAPCs with Risk >5x10-5 but ≤10-4	EAPCs with Risk >10-6 but ≤5x10-5
Trench Worker	Outdoor Shallow Soil	—	—	—	16, 23

FIGURE 24

EAPCs WITH ELEVATED RME RISK FOR OUTDOOR SOIL AND TRENCH WORKER

Baseline Risk Assessment
Del Amo Superfund Site

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