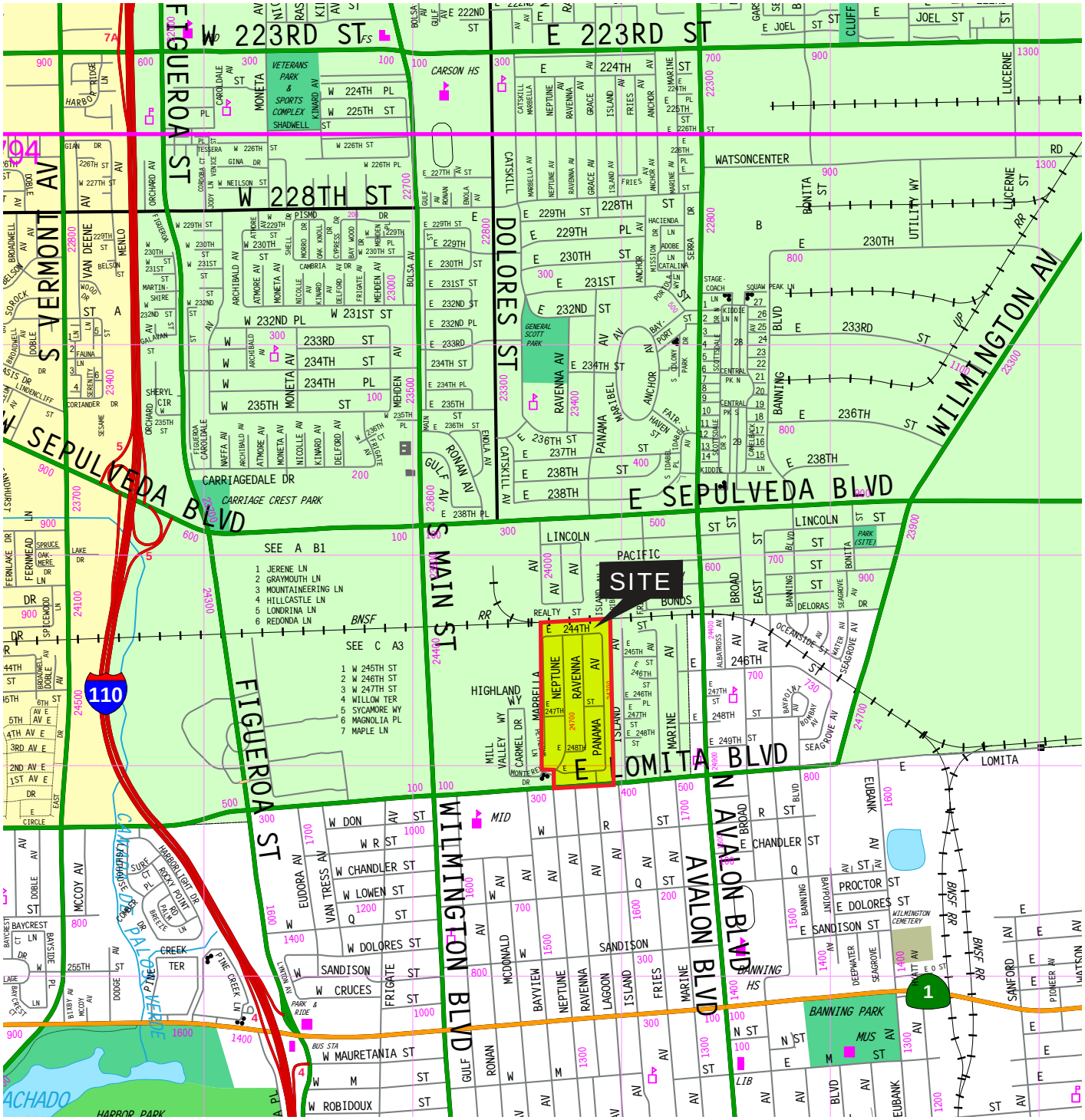
FIGURES



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0 1400 2800

SCALE IN FEET

N

SITE VICINITY MAP

Project No.: 49194119	Date: March 2014	Project: Former KAST Property	Figure 2-1

K:/2008/KAST/fiugure 1 Vic Map.ai

URS

0 150 300
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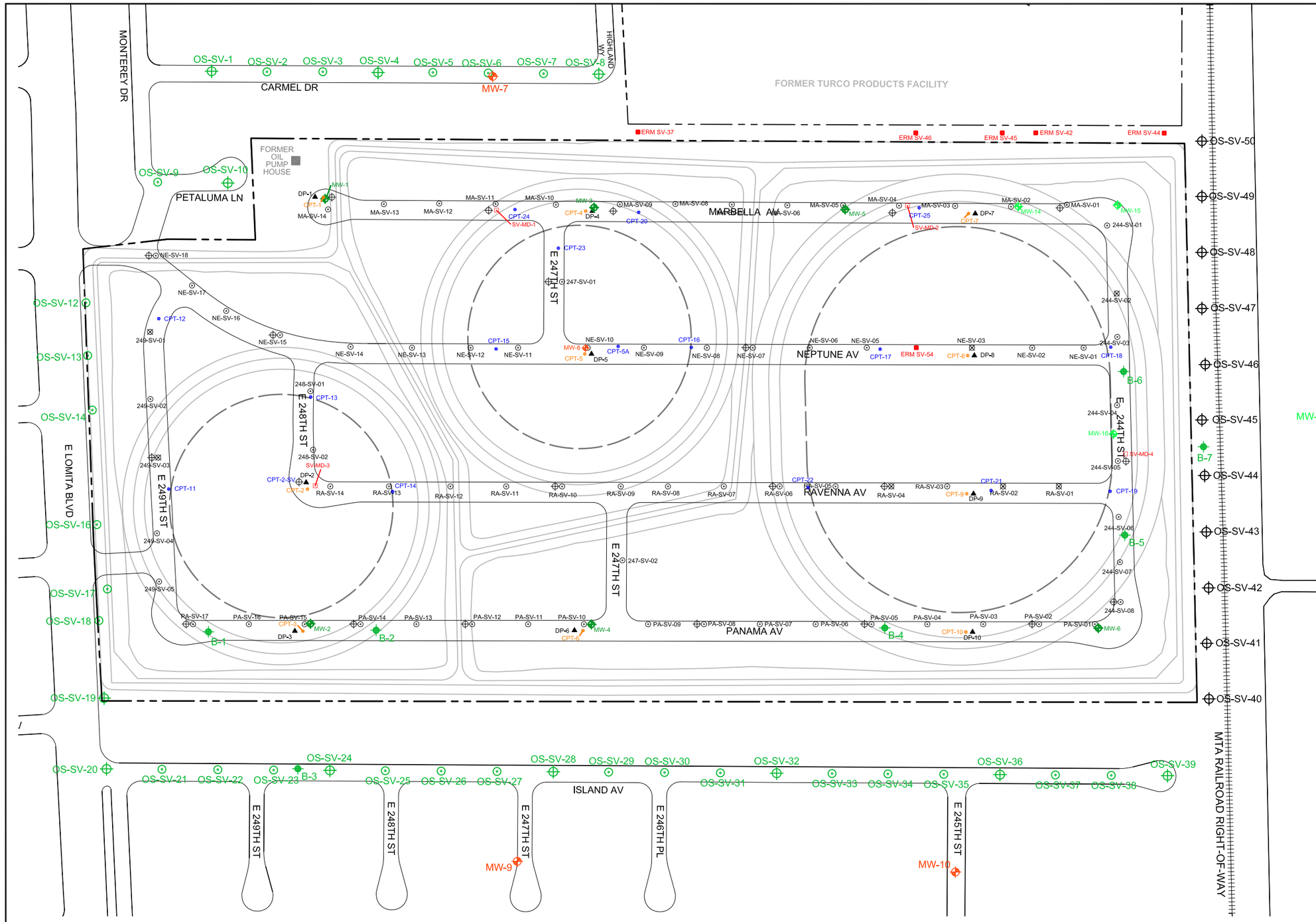
LOCATION MAP
SHOWING SITE AND SURROUNDING
PROPERTIES AND FEATURES

Proj. No.:	49194119	Date:	MARCH 2014
Project:	FORMER KAST PROPERTY	Figure:	2-2

G:\1 Shell Products - Former Kast Property\RAP\SVE Figures\Figure 2-2 Location Map Site And Surrounding Props And Features.dwg , File date: 3/3/2014 5:54 PM , Print date: 3/10/2014 4:02 PM by: Ferry, Luke



EXPLANATION

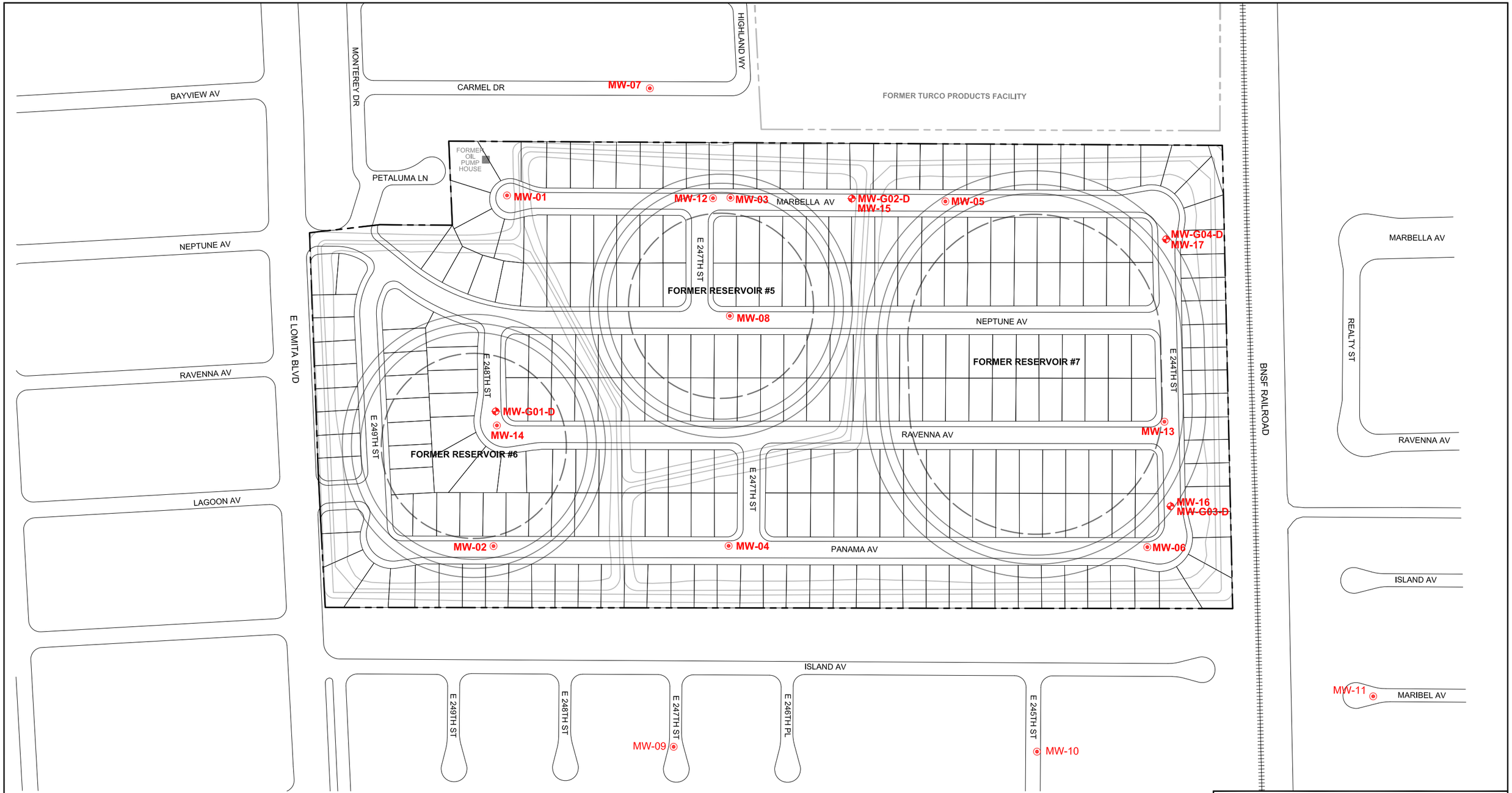
- CPT-1 ● APPROXIMATE LOCATION OF PREVIOUS CPT/ROST SOUNDING FROM PHASE I SITE CHARACTERIZATION
- CPT-11 ● APPROXIMATE LOCATION OF CPT/UVOST SOUNDING FROM PLUME DELINATION INVESTIGATION
- DP-3 ▲ APPROXIMATE LOCATION OF DIRECT-PUSH BORING
- PA-SV-01 ⊙ APPROXIMATE LOCATION OF 5-FT BGS SOIL VAPOR PROBES FROM PHASE I SITE CHARACTERIZATION INVESTIGATION
- ERM-SV-54 ■ APPROXIMATE LOCATION OF ERM SOIL GAS LOCATIONS
- ⊕ APPROXIMATE LOCATION OF PREVIOUS 15 AND 20-FT BGS SOIL VAPOR PROBES FROM PHASE I SITE CHARACTERIZATION INVESTIGATION
- ⊠ APPROXIMATE LOCATION OF 5-FT BGS SOIL VAPOR PROBES (NOT SAMPLED)
- SV-MD-1 □ APPROXIMATE LOCATION OF MULTI-DEPTH SOIL VAPOR PROBES
- MW-1 ⊕ APPROXIMATE LOCATION OF PREVIOUS GROUNDWATER MONITORING WELL FROM PHASE I SITE CHARACTERIZATION INVESTIGATION
- MW-7 ⊕ APPROXIMATE LOCATION OF NEW GROUNDWATER MONITORING WELL FROM PLUME DELINATION INVESTIGATION
- MW-17 ⊕ APPROXIMATE LOCATION OF TURCO GROUNDWATER MONITORING WELL
- B-1 ● APPROXIMATE LOCATION OF SOIL BORINGS FROM PLUME DELINEATION INVESTIGATION
- OS-SV-8 ⊙ APPROXIMATE LOCATION OF 5-FT BGS SOIL VAPOR SAMPLE LOCATIONS FROM PLUME DELINEATION INVESTIGATION
- OS-SV-4 ⊕ APPROXIMATE LOCATION OF 5, 15 AND 20-FT BGS SOIL VAPOR SAMPLE LOCATIONS FROM PLUME DELINEATION INVESTIGATION
- ⊕ OS-SV-42 PLANNED PROBE LOCATIONS AWAITING ACCESS FROM SCRRA
- EDGE OF CONCRETE FLOOR OF TANKS (BASED ON FLOOR ELEV.=27 FEET MSL)
- APPROXIMATE LOCATION OF RESERVOIR AND OUTER BERMS
- APPROXIMATE PROPERTY BOUNDARY

URS

LOCATIONS OF BORINGS AND SOIL VAPOR PROBES

Proj. No.:	49194119	Date:	MARCH 2014
Project:	FORMER KAST PROPERTY	Figure:	3-1

G:\1 Shell Products - Former Kast Property\RAP\SVE Figures\Figure 3-1 Boring And Soil Vapor Probes.dwg , File date: 3/10/2014 10:55 AM, Print date: 3/10/2014 10:56 AM by: Negrete, Gabriel



EXPLANATION

MW-G01-D — APPROXIMATE LOCATION OF KAST GAGE MONITORING WELL

MW-10 — APPROXIMATE LOCATION OF SHALLOW WATER-TABLE MONITORING WELL

— — — — APPROXIMATE SITE BOUNDARY

N

0 100 200

SCALE IN FEET

URS

LOCATIONS OF GROUNDWATER MONITORING WELLS

Proj. No.:	49194119	Date:	MARCH 2014
Project:	FORMER KAST PROPERTY	Figure:	3-2

G:\1 Shell Products - Former Kast Property\RAP\SVE Figures\Figure 3-2 MW Locations.dwg , File date: 3/10/2014 10:15 AM, Print date: 3/10/2014 10:16 AM by: Negrete, Gabriel

Legend

- Non-Detect (ND)
- <= 500 mg/kg
- > 500 to 5000 mg/kg
- > 5000 mg/kg

Notes:
500 mg/kg is the soil leaching to groundwater SSCG for TPHg

250 125 0 250 Feet

Geosyntec consultants

Santa Barbara, CA | March 2014

Distribution of TPH-Gasoline in Site Soils

Former Kast Property

Figure **3-3**

SantaBarbara-01\Data P:\GIS\Kast\Projects\2014-03_RAP\Fig3-3_TPH-g_Soil_Tripanel.mxd HLE 20140307

Legend

- Non-Detect (ND)
- <= 1000 mg/kg
- > 1000 to 10000 mg/kg
- > 10000 mg/kg

Notes:
1000 mg/kg is the soil leaching to groundwater SSCG for TPHd

250 125 0 250 Feet

Geosyntec consultants

Santa Barbara, CA | March 2014

Distribution of TPH-Diesel in Site Soils

Former Kast Property

Figure **3-4**

SantaBarbara-01\Data P:\GIS\Kast\Projects\2014-03_RAP\Fig3-4_TPH-d_Soil_Tripanel.mxd HLE 20140307

Legend

- Non-Detect (ND)
- <= 10000 mg/kg
- > 10000 to 100000 mg/kg
- > 100000 mg/kg

Notes:
10000 mg/kg is the soil leaching to groundwater SSCG for TPHmo

250 125 0 250 Feet

Geosyntec consultants

Santa Barbara, CA | March 2014

Distribution of TPH-Motor Oil in Site Soils

Former Kast Property

Figure **3-5**

SantaBarbara-01\Data P:\GIS\Kast\Projects\2014-03 RAP\Fig3-5 TPH-mo Soil Trip.anel.mxd HLE 20140307

Legend

- Non-Detect (ND)
- <= 0.015 mg/kg
- > 0.015 to 0.15 mg/kg
- > 0.15 to 1.5mg/kg
- > 1.5 mg/kg

Notes:
0.015 mg/kg is the soil leaching to groundwater SSCG for Benzene

250 125 0 250 Feet

Geosyntec consultants

Santa Barbara, CA | March 2014

Distribution of Benzene in Site Soils

Former Kast Property

Figure **3-6**

SantaBarbara-01\Data P:\GIS\Kast\Projects\2014-03 RAP\Fig3-6 Benzene Soil Tripanel.mxd HLE 20140307

Legend

- Non-Detect (ND)
- <= 0.52 mg/kg
- > 0.52 to 5.2 mg/kg
- > 5.2 to 52 mg/kg
- > 52 mg/kg

Notes:
0.52 mg/kg is the soil leaching to groundwater SSCG for naphthalene

250 125 0 250 Feet

Geosyntec consultants

Santa Barbara, CA | March 2014

Distribution of Naphthalene in Site Soils

Former Kast Property

Figure **3-7**

SantaBarbara-01\Data P:\GIS\Kast\Projects\2014-03 RAP\Fig3-7 Naphthalene Soil Triplanel.mxd HLE 20140307

Legend

- Non-Detect (ND)
- <= 0.9 mg/kg
- > 0.9 to 1.6 mg/kg
- > 1.6 to 16 mg/kg
- > 16 mg/kg

Notes:
0.9 mg/kg is the soil leaching to groundwater SSCG for benxo(a)pyrene-equivalents

250 125 0 250 Feet

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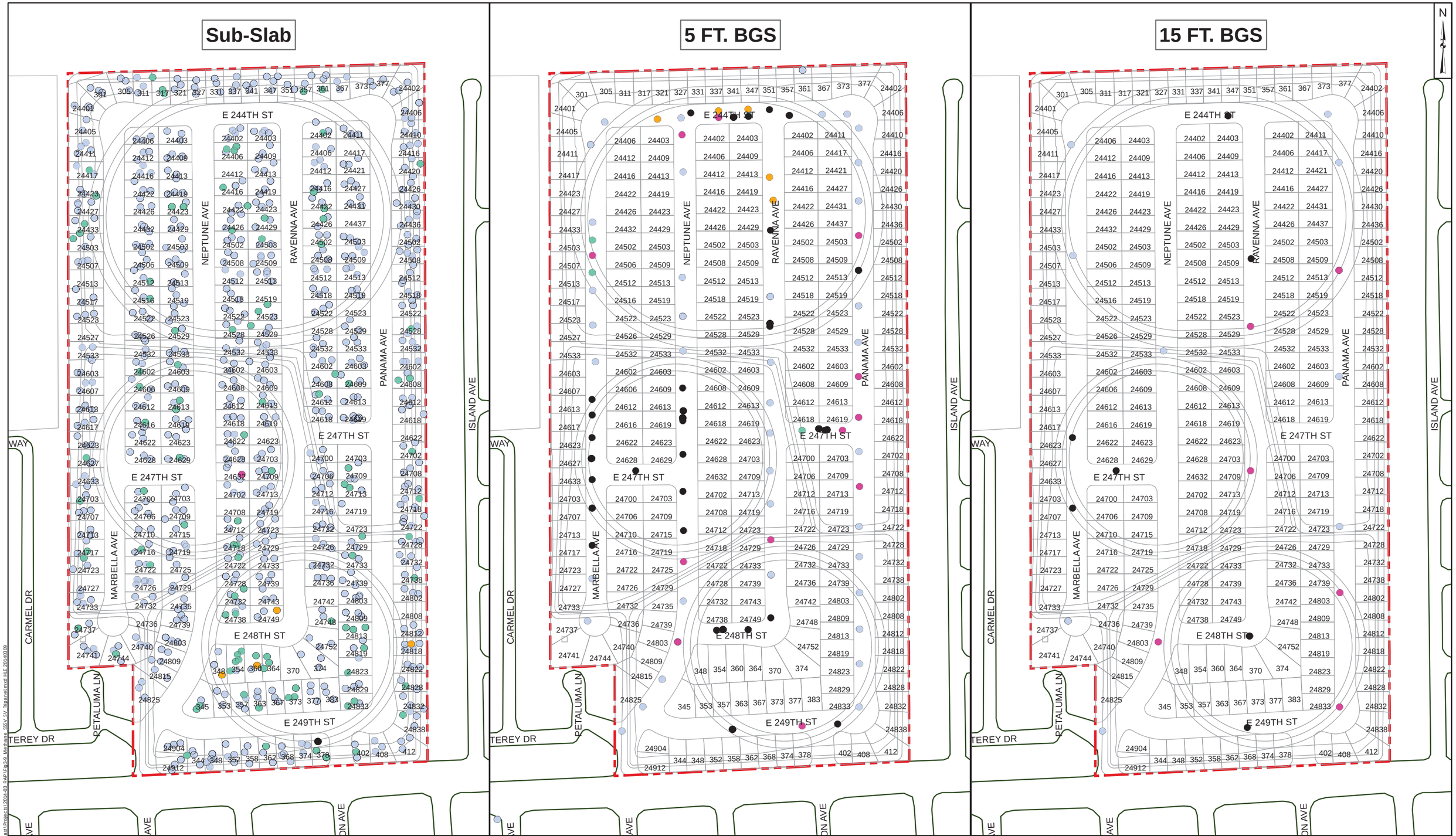
Distribution of Benzo(a)pyrene-Equivalents in Site Soils

Former Kast Property

Figure **3-8**

SantaBarbara-01\Data P:\GIS\Kast\Projects\2014-03 RAP\Fig3-8 BAP EQ Soil Triganet.mxd HLE 20140307



Legend

- Non-Detect (ND)
- <= 0.1 %
- > 0.1 to 0.5 %
- > 0.5 to 5.0 %
- > 5.0 %

Notes:
Results for methane due to leaking natural gas line or sewer line sources are not shown
0.1% and 0.5% are the SSCGs for methane in soil vapor

250 125 0 250 Feet

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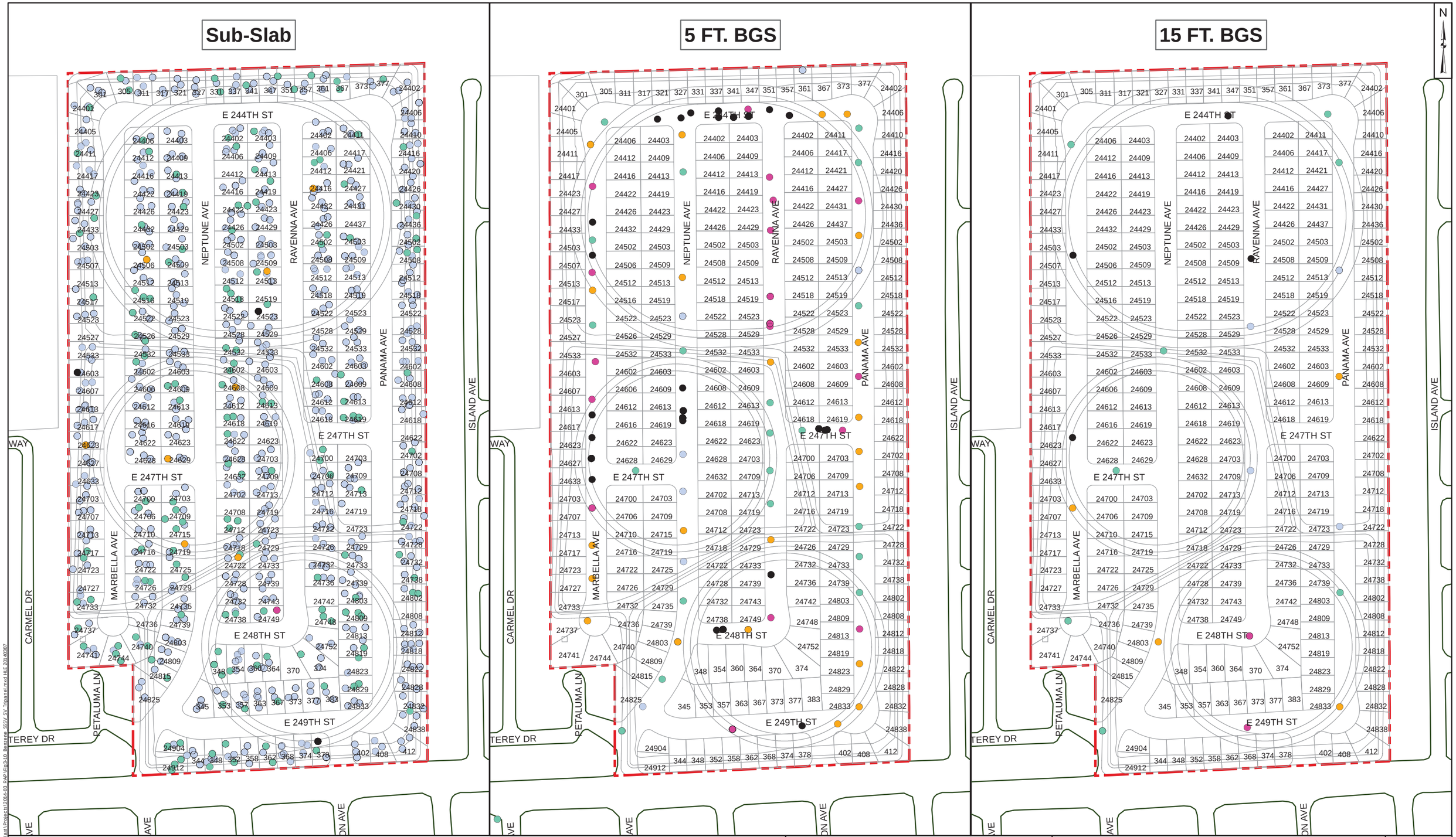
Santa Barbara, CA | March 2014

Methane Concentrations Detected in Sub-slab Soil Vapor and in Soil Vapor at 5 and 15 feet bgs

Former Kast Property

Figure **3-9**

SantaBarbara-01\Data P:\GIS\Kast\Projects\2014-03 RAP\Fig3-9_Methane_SSSV_SV_Tripanel.mxd HLE 20140309



Legend

- Non-Detect (ND)
- <= 42 ug/m3
- > 42 to 420 ug/m3
- > 420 to 4200 ug/m3
- > 4200 ug/m3

Notes:
42 µg/m 3 is the SSCG for benzene in soil vapor

250 125 0 250 Feet

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Santa Barbara, CA | March 2014

Benzene Concentrations in Sub-slab Soil Vapor and in Soil Vapor at 5 and 15 feet bgs

Former Kast Property

Figure **3-10**

SantaBarbara-01\Data P:\GIS\Kast\Projects\2014-03 RAP\Fig3-10 Benzene SSSV SV Tripanel.mxd HLE 20140307