CITYGATE ASSOCIATES, LLC
FOLSOM (SACRAMENTO), CA
MANAGEMENT CONSULTANTS

STANDARDS OF RESPONSE COVER STUDY FOR THE CITY OF EUREKA FIRE DEPARTMENT

Final Report

VOLUME 2 OF 3 – MAP ATLAS

February 9, 2007

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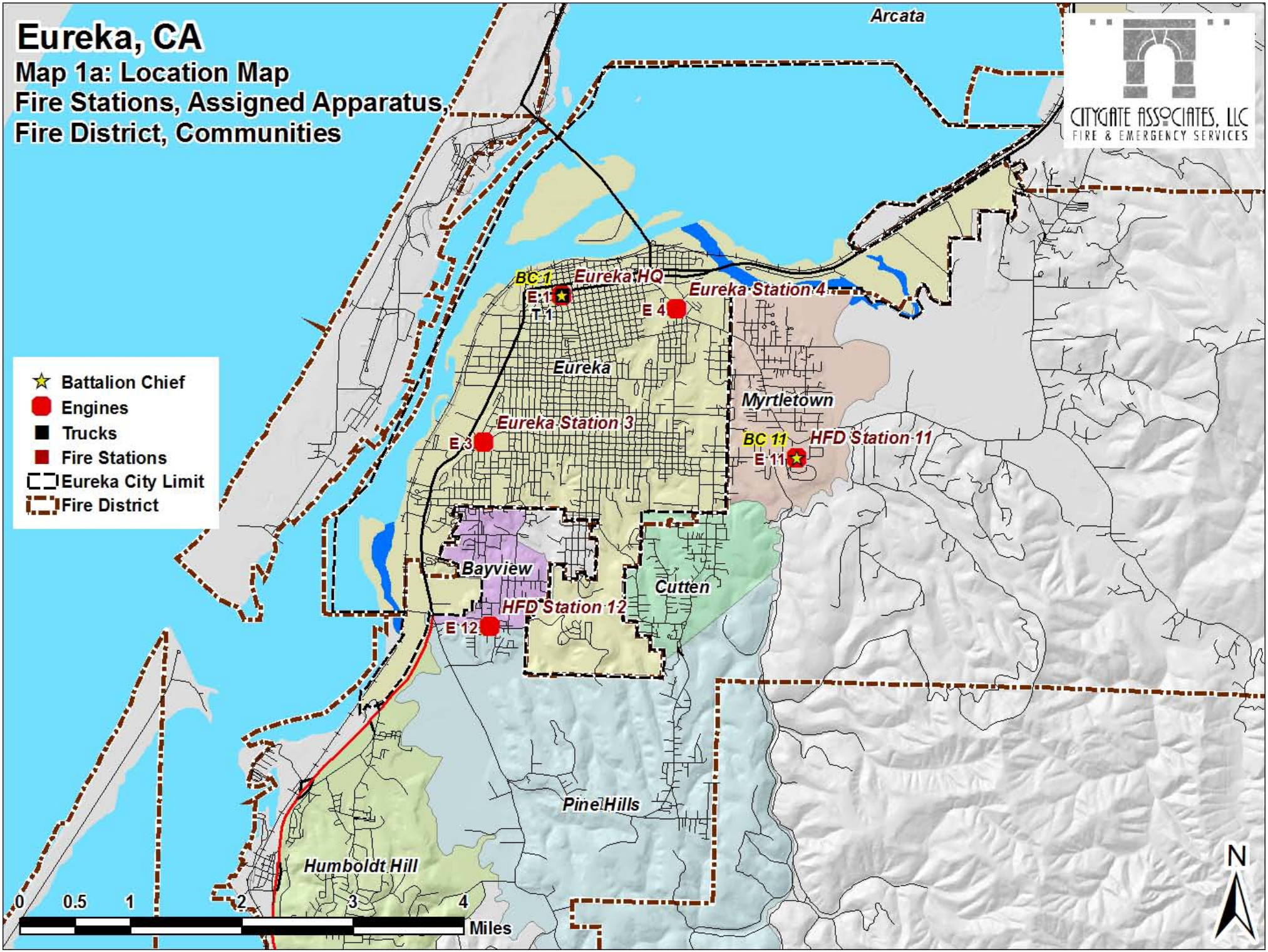
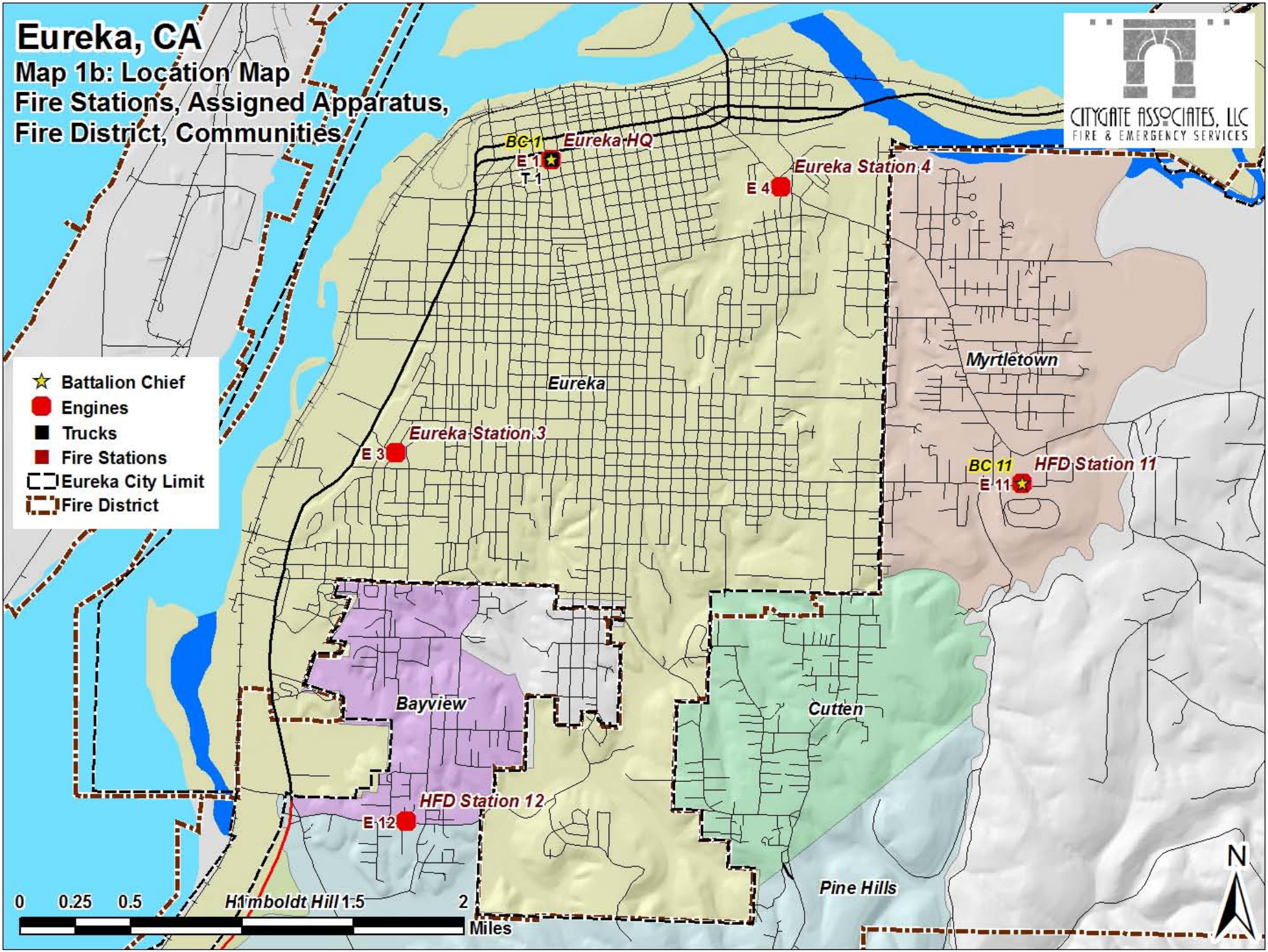
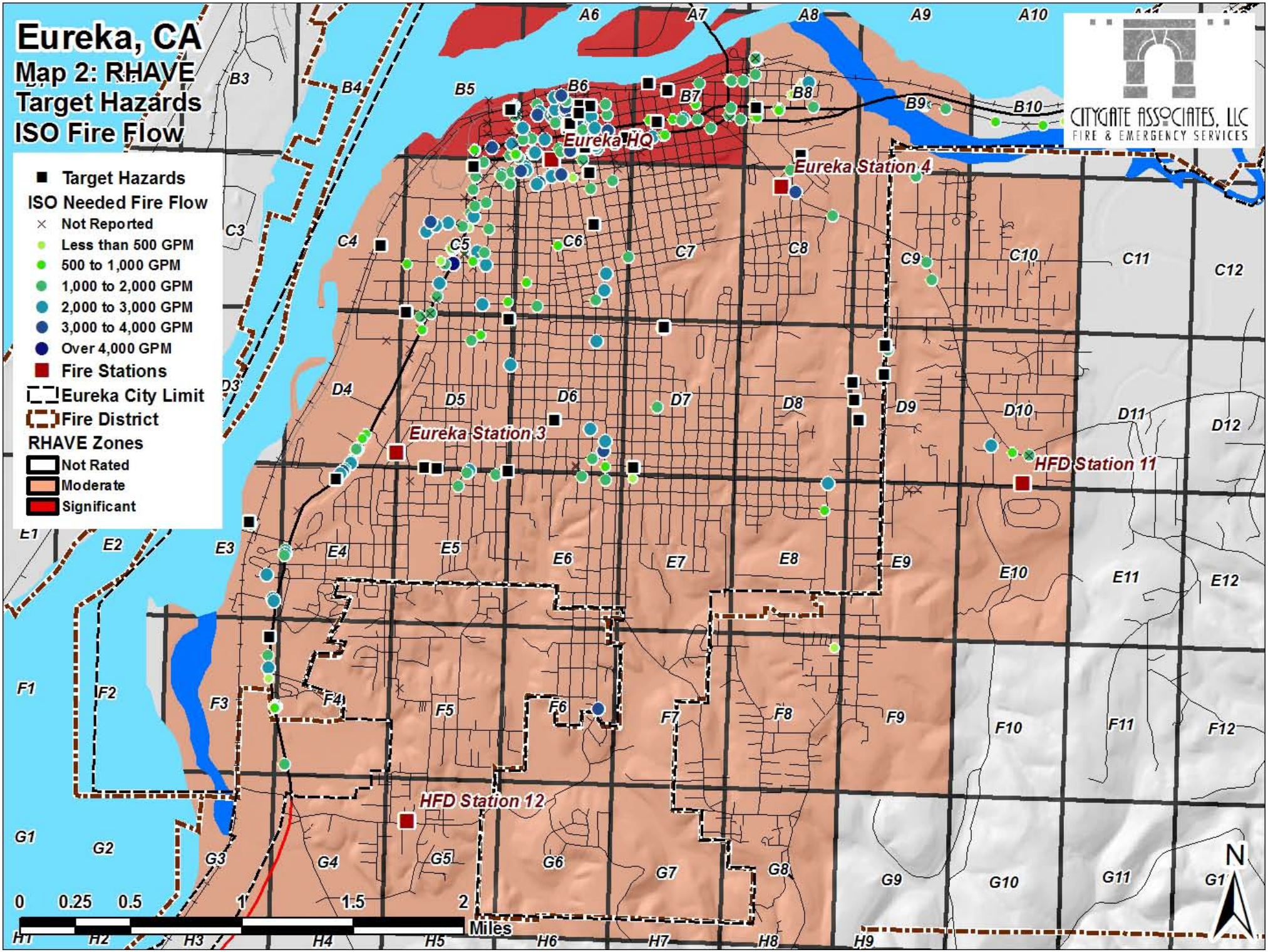
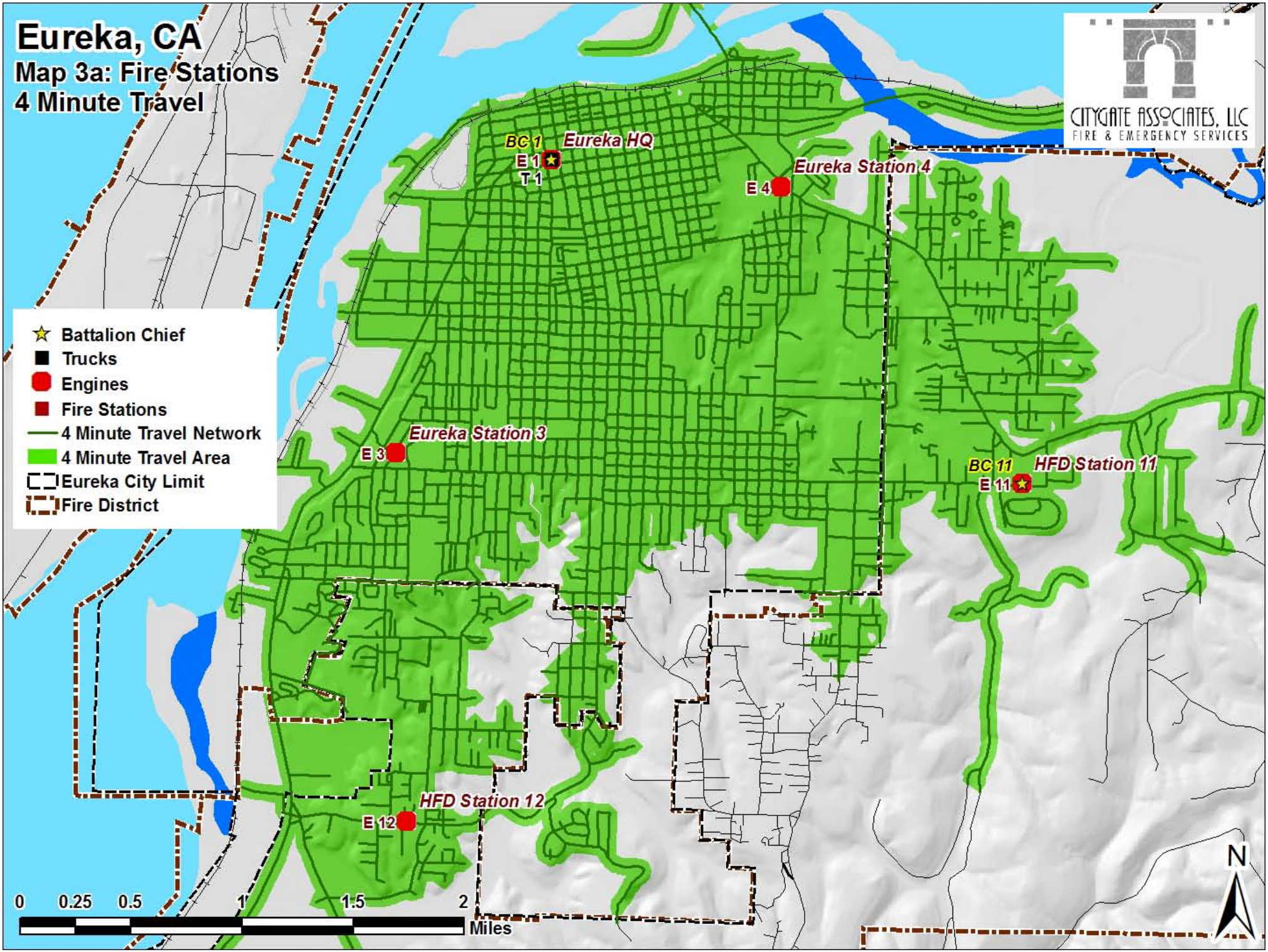
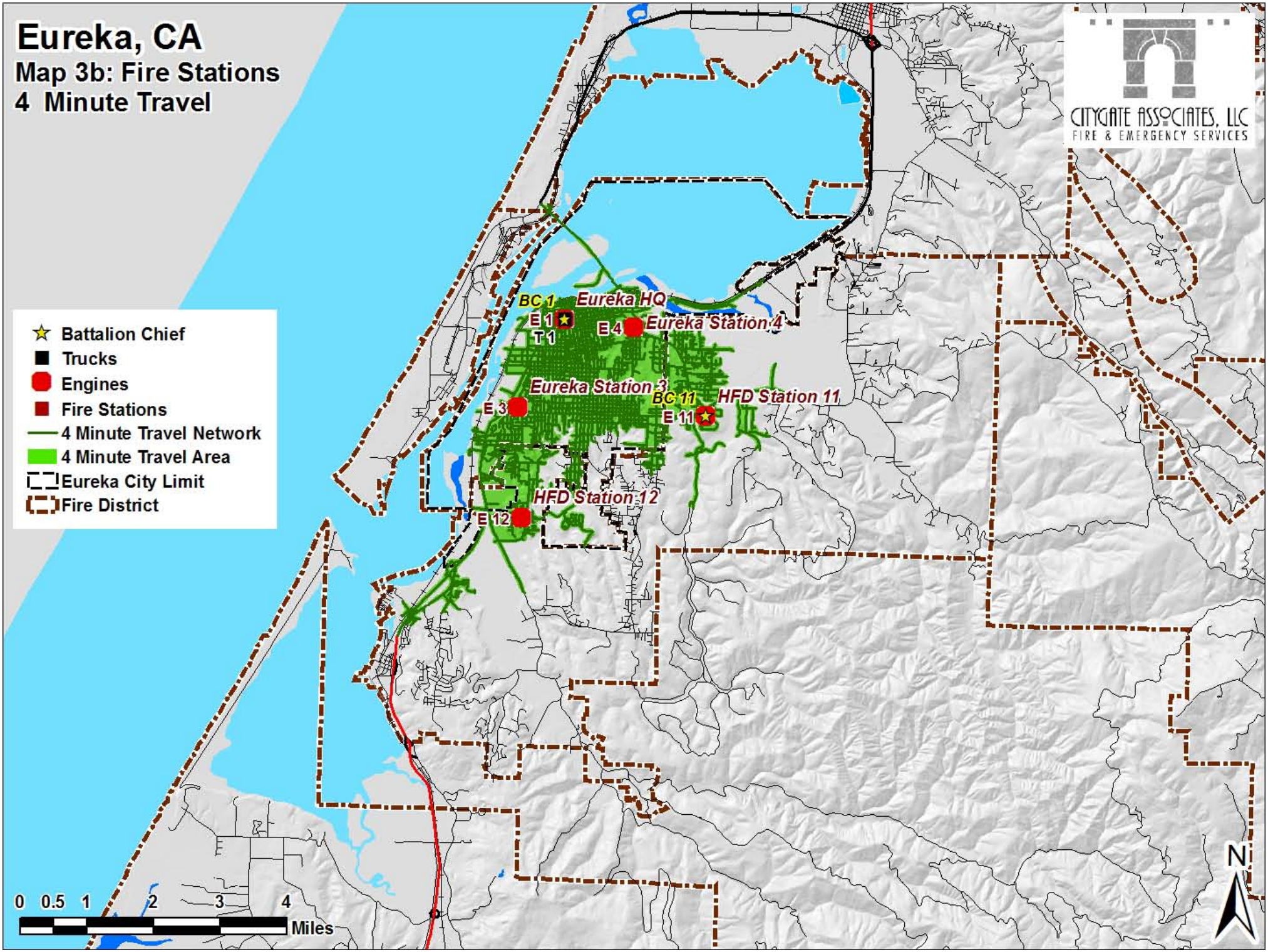
CITYGATE ASSOCIATES, LLC
FIRE & EMERGENCY SERVICES

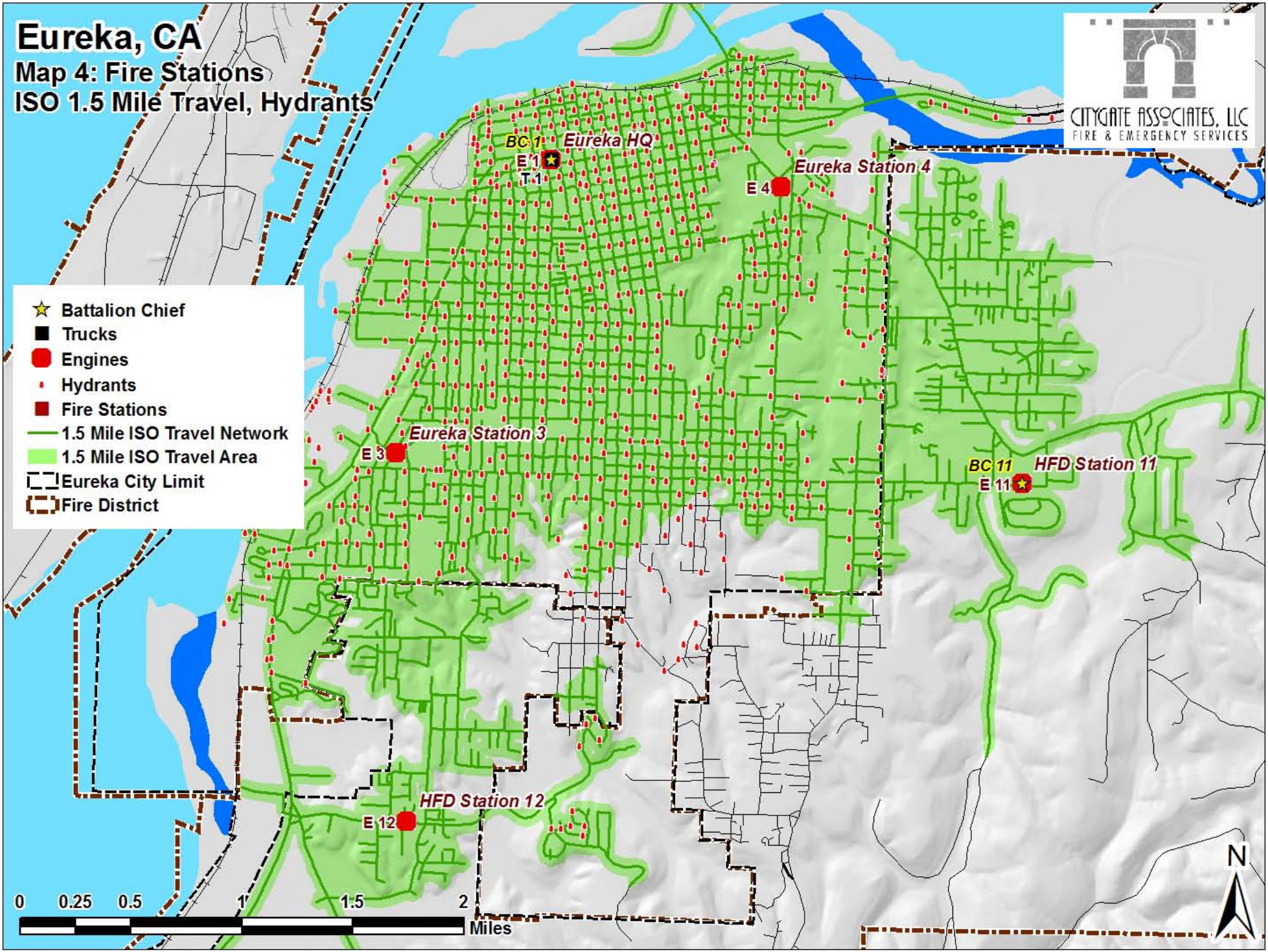

Eureka, CA
Map 1a: Location Map
Fire Stations, Assigned Apparatus,
Fire District, Communities
CITYGATE ASSOCIATES, LLC
FIRE & EMERGENCY SERVICES
Arcata
BC 1
Eureka HQ
E 1
T 1
E 4
Eureka Station 4
Eureka
Myrtletown
Eureka Station 3
E 3
BC 11
HFD Station 11
E 11
Bayview
Cutten
HFD Station 12
E 12
Pine Hills
Humboldt Hill
Battalion Chief
Engines
Trucks
Fire Stations
Eureka City Limit
Fire District
0
0.5
1
2
3
4
Miles
N

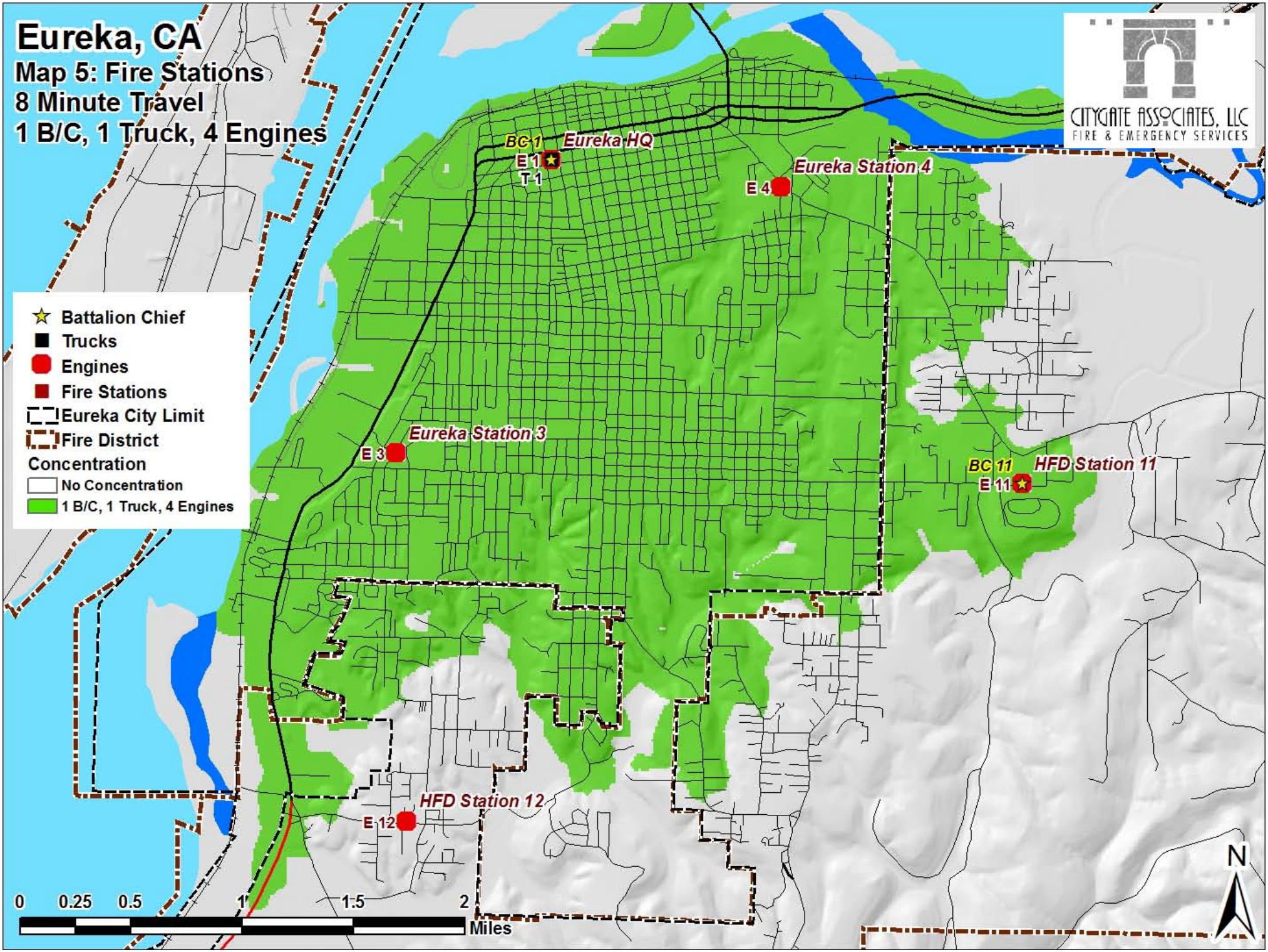

Eureka, CA
Map 1b: Location Map
Fire Stations, Assigned Apparatus,
Fire District, Communities
CITYGATE ASSOCIATES, LLC
FIRE & EMERGENCY SERVICES
Battalion Chief
Engines
Trucks
Fire Stations
Eureka City Limit
Fire District
BC 1
Eureka HQ
E 1
T 1
Eureka Station 4
E 4
Eureka
Myrtletown
Eureka Station 3
E 3
BC 11
HFD Station 11
E 11
Bayview
Cutten
HFD Station 12
E 12
Pine Hills
Humboldt Hill
0
0.25
0.5
1.5
2
Miles
N

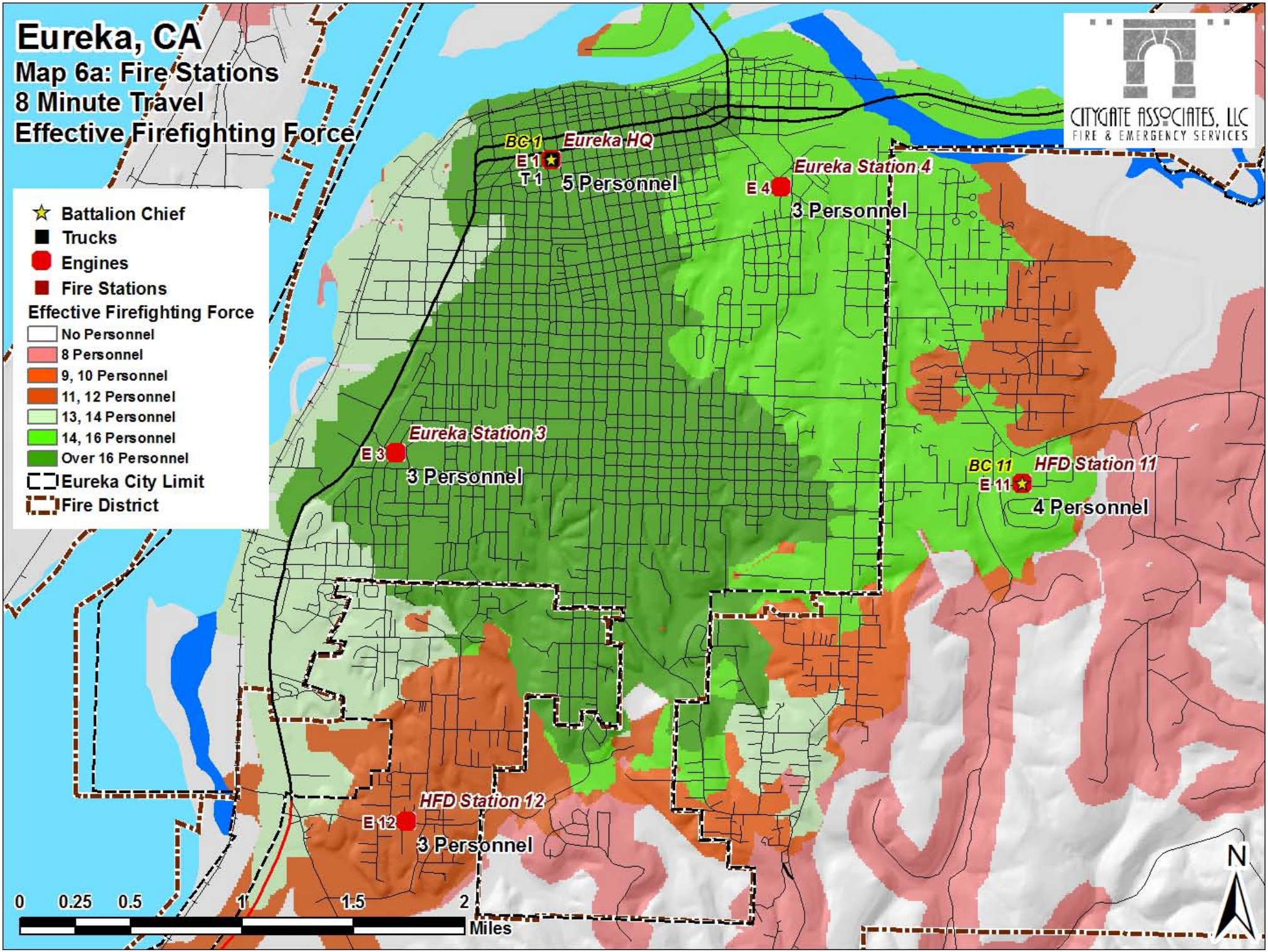

Eureka, CA
Map 2: RHAVE
Target Hazards
ISO Fire Flow
Target Hazards
ISO Needed Fire Flow
Not Reported
Less than 500 GPM
500 to 1,000 GPM
1,000 to 2,000 GPM
2,000 to 3,000 GPM
3,000 to 4,000 GPM
Over 4,000 GPM
Fire Stations
Eureka City Limit
Fire District
RHAVE Zones
Not Rated
Moderate
Significant
Eureka HQ
Eureka Station 4
Eureka Station 3
HFD Station 11
HFD Station 12
CITYGATE ASSOCIATES, LLC
FIRE & EMERGENCY SERVICES
0 0.25 0.5 1 1.5 2
Miles
N

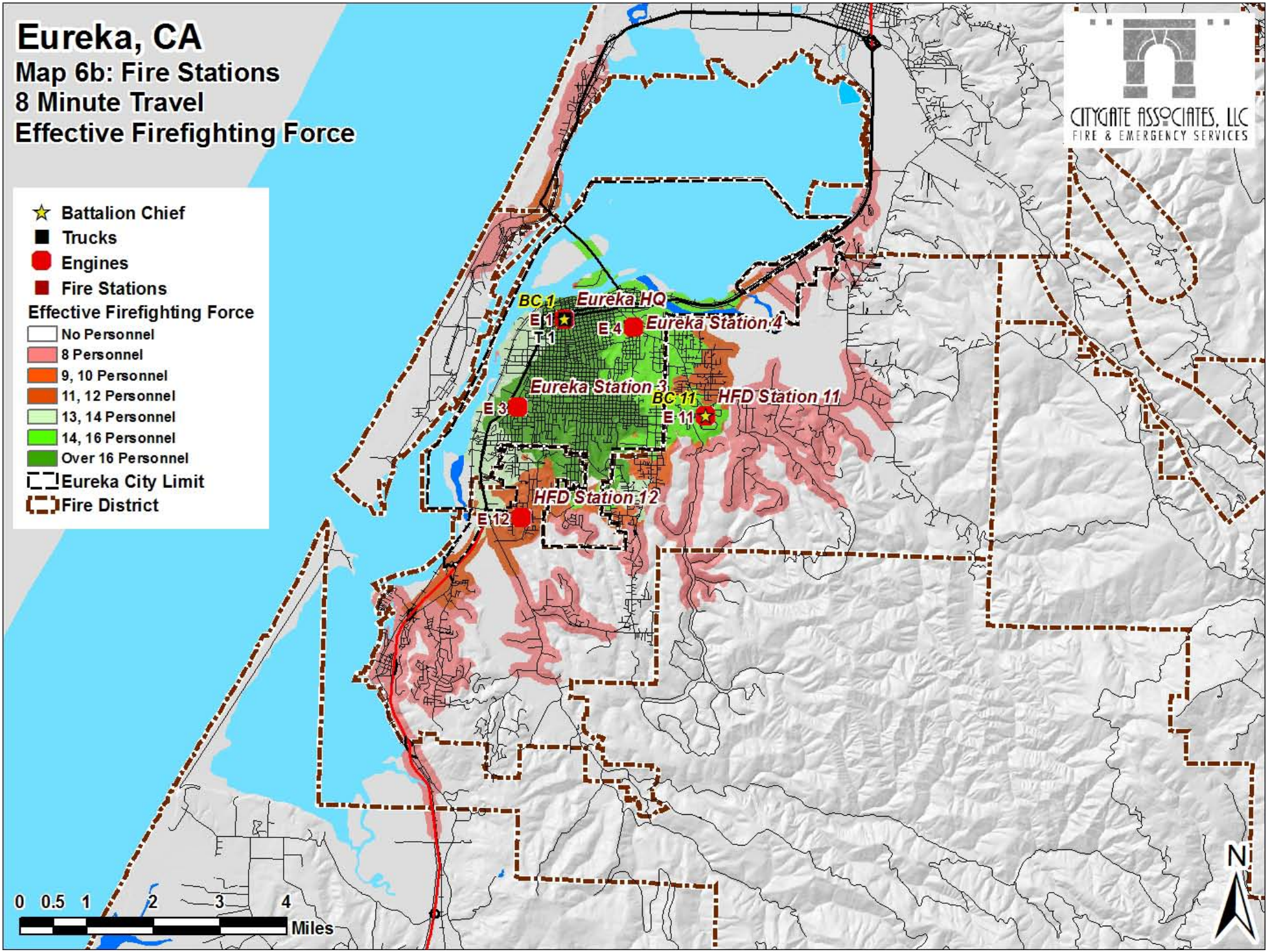

Eureka, CA
Map 3a: Fire Stations
4 Minute Travel
CITYGATE ASSOCIATES, LLC
FIRE & EMERGENCY SERVICES
BC 1
Eureka HQ
E 1
T 1
Eureka Station 4
E 4
Eureka Station 3
E 3
BC 11
HFD Station 11
E 11
HFD Station 12
E 12
Battalion Chief
Trucks
Engines
Fire Stations
4 Minute Travel Network
4 Minute Travel Area
Eureka City Limit
Fire District
0
0.25
0.5
1
1.5
2
Miles
N

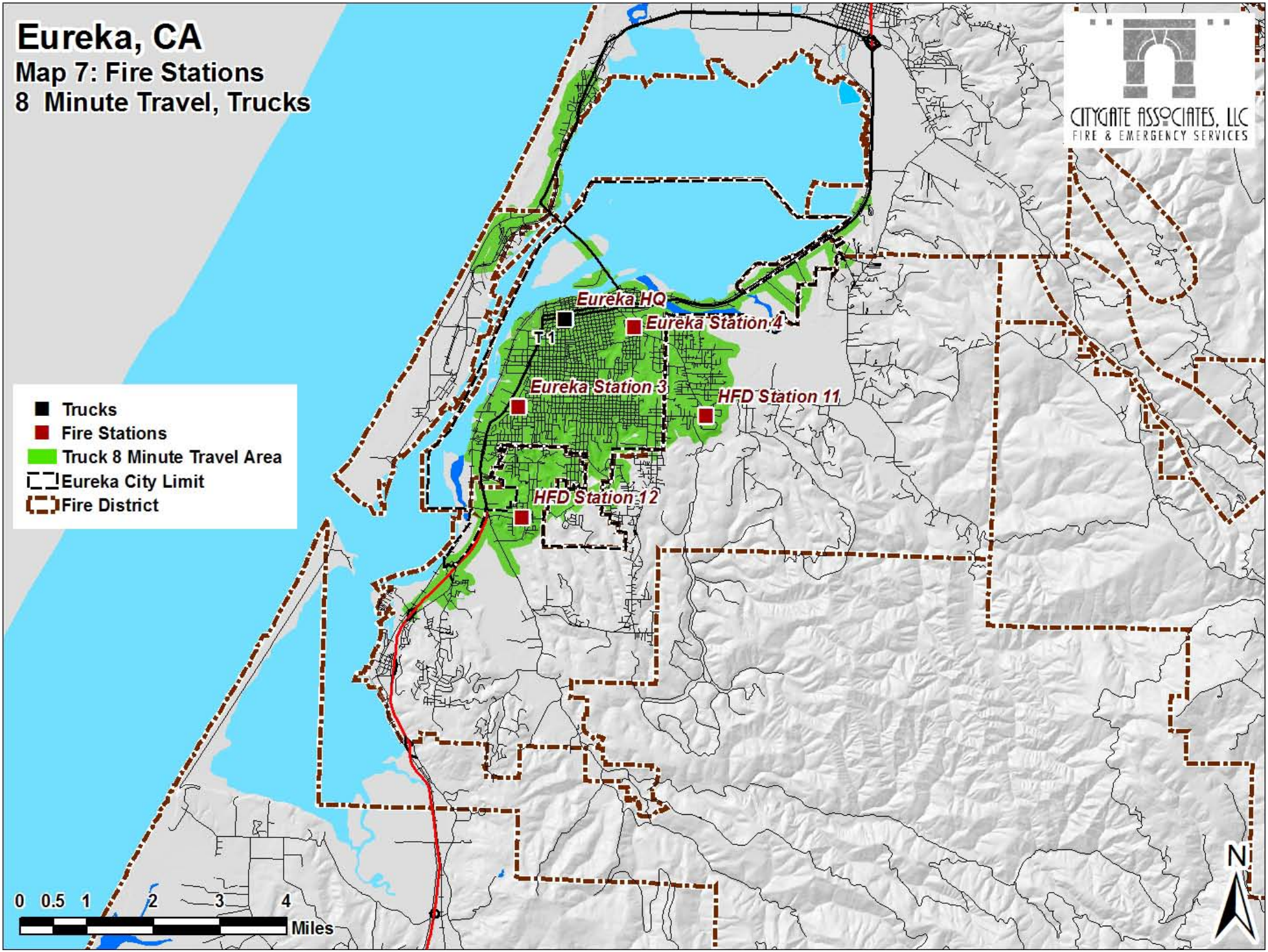

Eureka, CA
Map 3b: Fire Stations
4 Minute Travel
CITYGATE ASSOCIATES, LLC
FIRE & EMERGENCY SERVICES
Battalion Chief
Trucks
Engines
Fire Stations
4 Minute Travel Network
4 Minute Travel Area
Eureka City Limit
Fire District
BC 1
Eureka HQ
E 1
T 1
E 4
Eureka Station 4
Eureka Station 3
BC 11
HFD Station 11
E 3
E 11
HFD Station 12
E 12
0 0.5 1 2 3 4
Miles
N

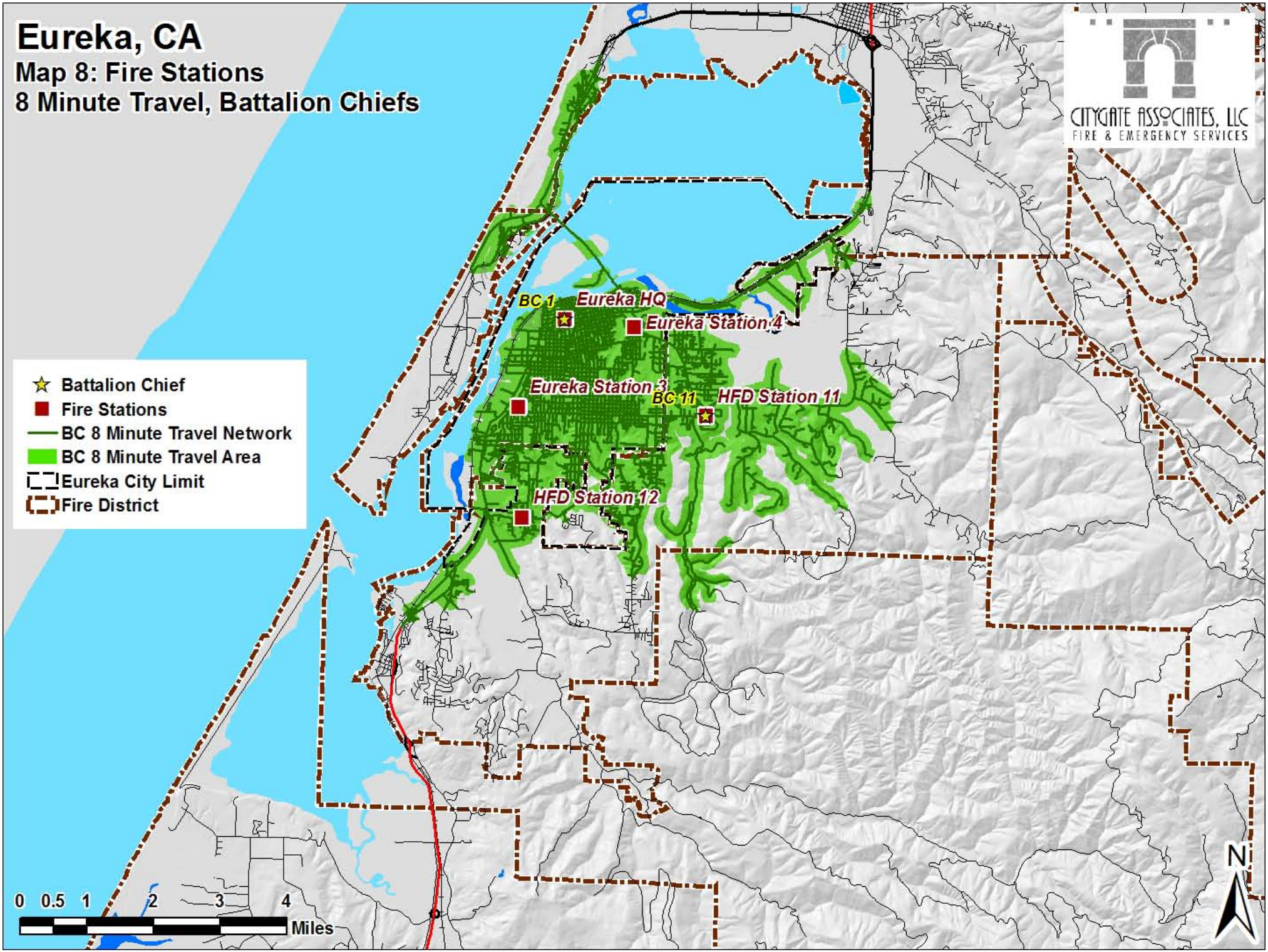

Eureka, CA
Map 4: Fire Stations
ISO 1.5 Mile Travel, Hydrants
CITYGATE ASSOCIATES, LLC
FIRE & EMERGENCY SERVICES
Battalion Chief
Trucks
Engines
Hydrants
Fire Stations
1.5 Mile ISO Travel Network
1.5 Mile ISO Travel Area
Eureka City Limit
Fire District
BC 1
Eureka HQ
E 1
T 1
Eureka Station 4
E 4
Eureka Station 3
E 3
BC 11
HFD Station 11
E 11
HFD Station 12
E 12
0
0.25
0.5
1
1.5
2
Miles
N

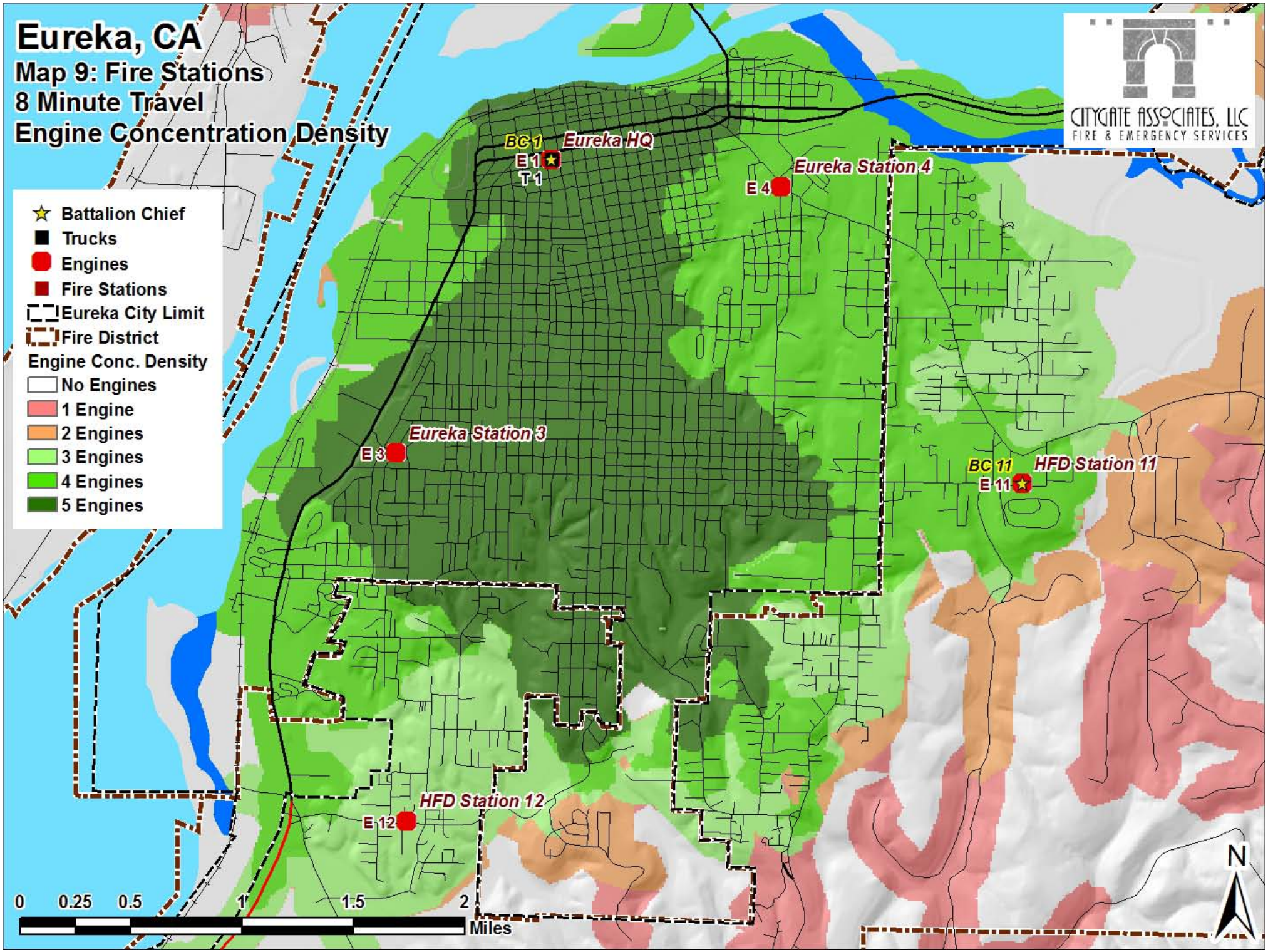

Eureka, CA
Map 5: Fire Stations
8 Minute Travel
1 B/C, 1 Truck, 4 Engines
CITYGATE ASSOCIATES, LLC
FIRE & EMERGENCY SERVICES
Battalion Chief
Trucks
Engines
Fire Stations
Eureka City Limit
Fire District
Concentration
No Concentration
1 B/C, 1 Truck, 4 Engines
BC 1
Eureka HQ
E 1
T 1
Eureka Station 4
E 4
Eureka Station 3
E 3
BC 11
HFD Station 11
E 11
HFD Station 12
E 12
0
0.25
0.5
1
1.5
2
Miles
N

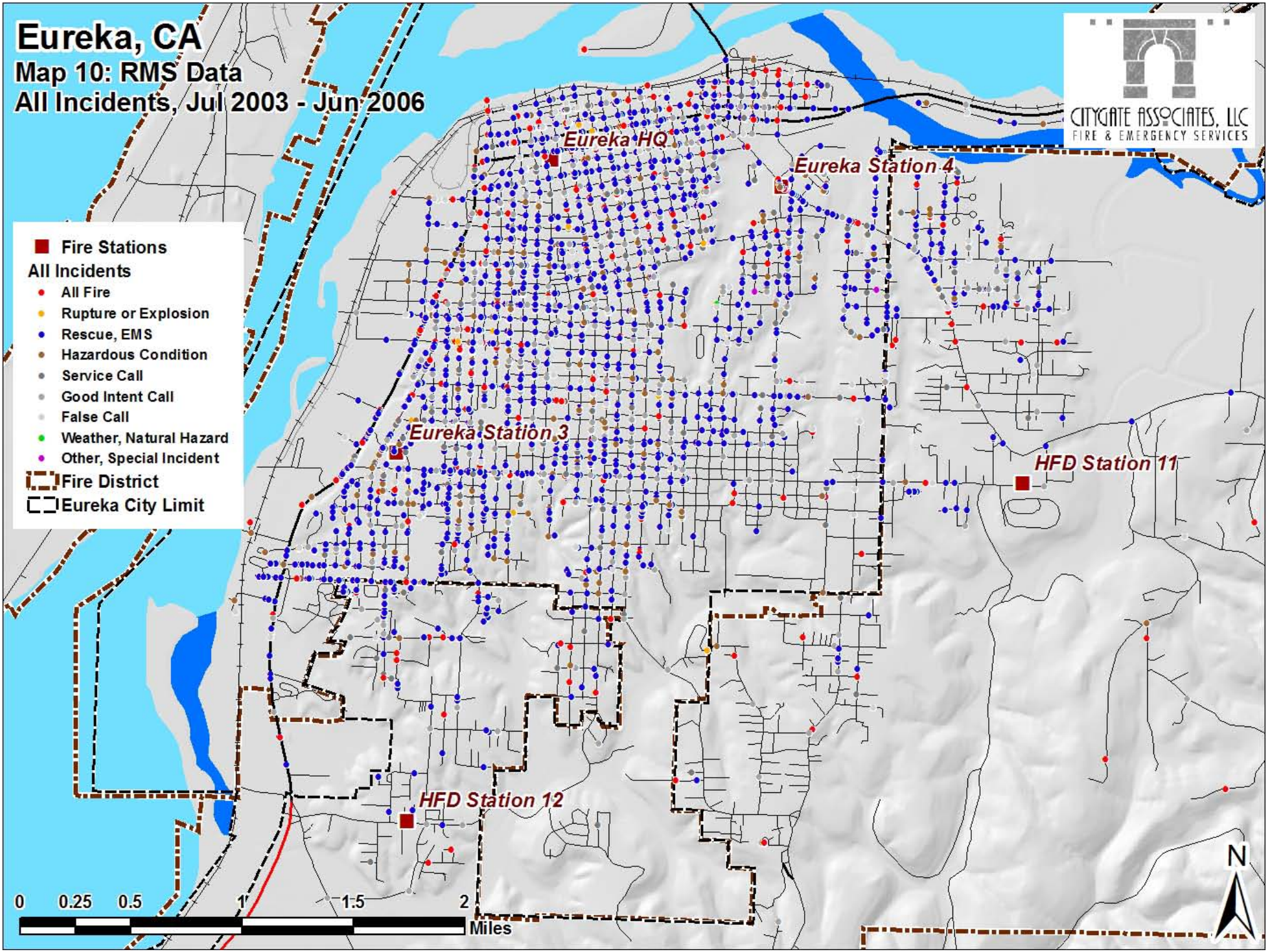

Eureka, CA
Map 6a: Fire Stations
8 Minute Travel
Effective Firefighting Force
CITYGATE ASSOCIATES, LLC
FIRE & EMERGENCY SERVICES
Battalion Chief
Trucks
Engines
Fire Stations
Effective Firefighting Force
No Personnel
8 Personnel
9, 10 Personnel
11, 12 Personnel
13, 14 Personnel
14, 16 Personnel
Over 16 Personnel
Eureka City Limit
Fire District
BC 1
Eureka HQ
E 1
T 1
5 Personnel
Eureka Station 4
E 4
3 Personnel
Eureka Station 3
E 3
3 Personnel
BC 11
HFD Station 11
E 11
4 Personnel
HFD Station 12
E 12
3 Personnel
0
0.25
0.5
1
1.5
2
Miles
N

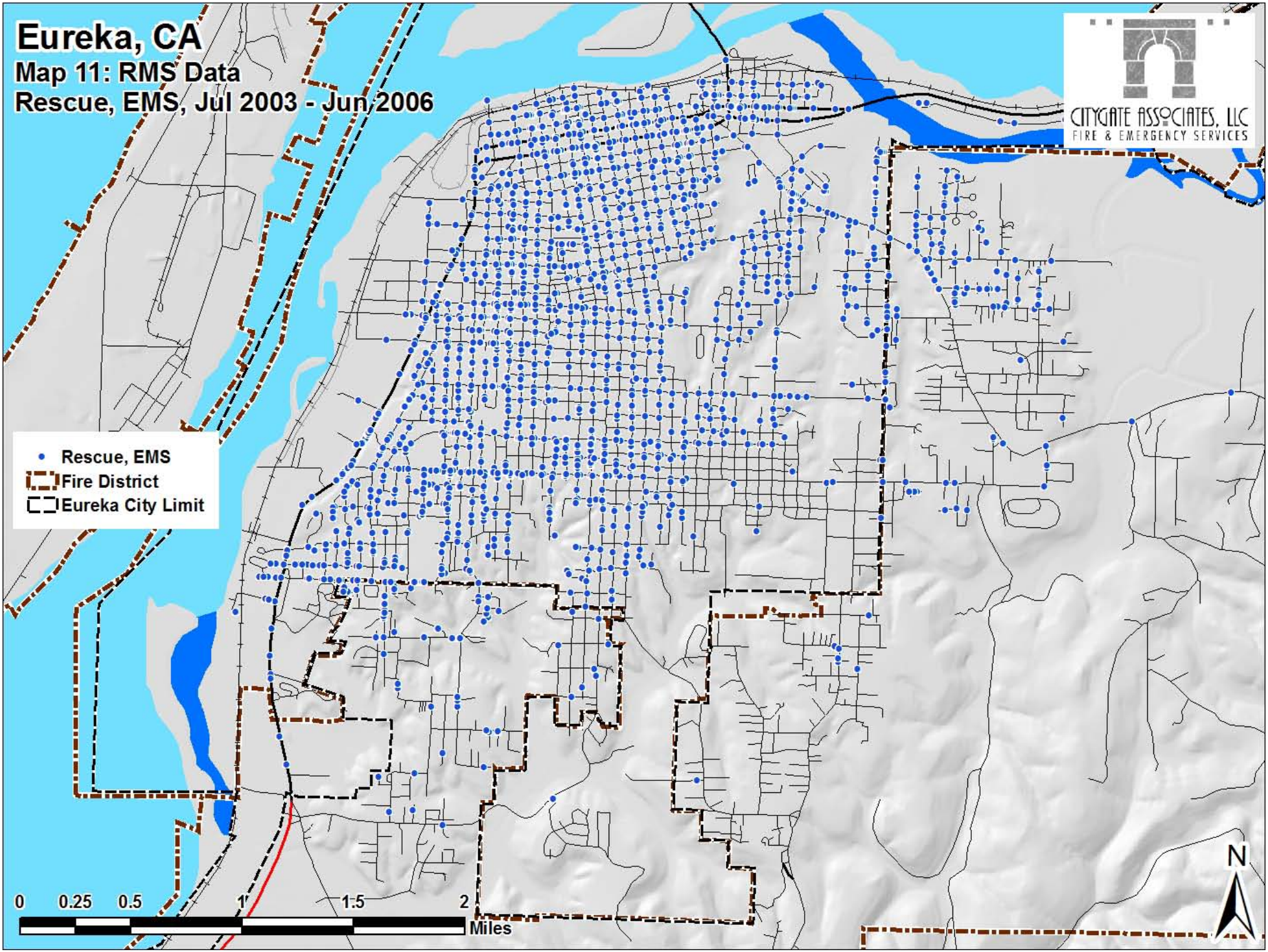

Eureka, CA
Map 6b: Fire Stations
8 Minute Travel
Effective Firefighting Force
CITYGATE ASSOCIATES, LLC
FIRE & EMERGENCY SERVICES
Battalion Chief
Trucks
Engines
Fire Stations
Effective Firefighting Force
No Personnel
8 Personnel
9, 10 Personnel
11, 12 Personnel
13, 14 Personnel
14, 16 Personnel
Over 16 Personnel
Eureka City Limit
Fire District
BC 1
Eureka HQ
E 1
T 1
E 4
Eureka Station 4
Eureka Station 3
E 3
BC 11
HFD Station 11
E 11
HFD Station 12
E 12
0 0.5 1 2 3 4
Miles
N

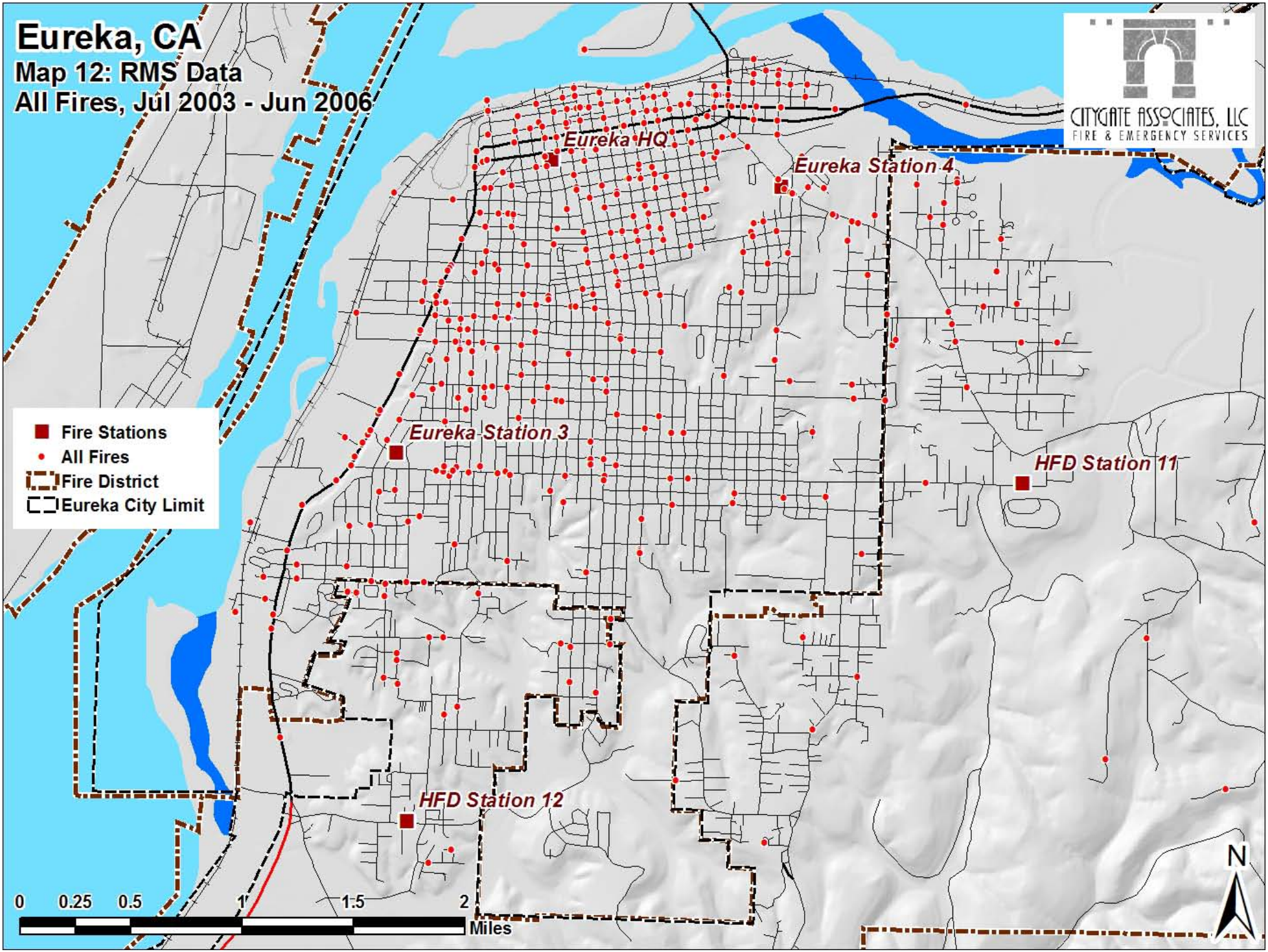

Eureka, CA
Map 7: Fire Stations
8 Minute Travel, Trucks
CITYGATE ASSOCIATES, LLC
FIRE & EMERGENCY SERVICES
Eureka HQ
T1
Eureka Station 4
Eureka Station 3
HFD Station 11
HFD Station 12
Trucks
Fire Stations
Truck 8 Minute Travel Area
Eureka City Limit
Fire District
0 0.5 1 2 3 4
Miles
N

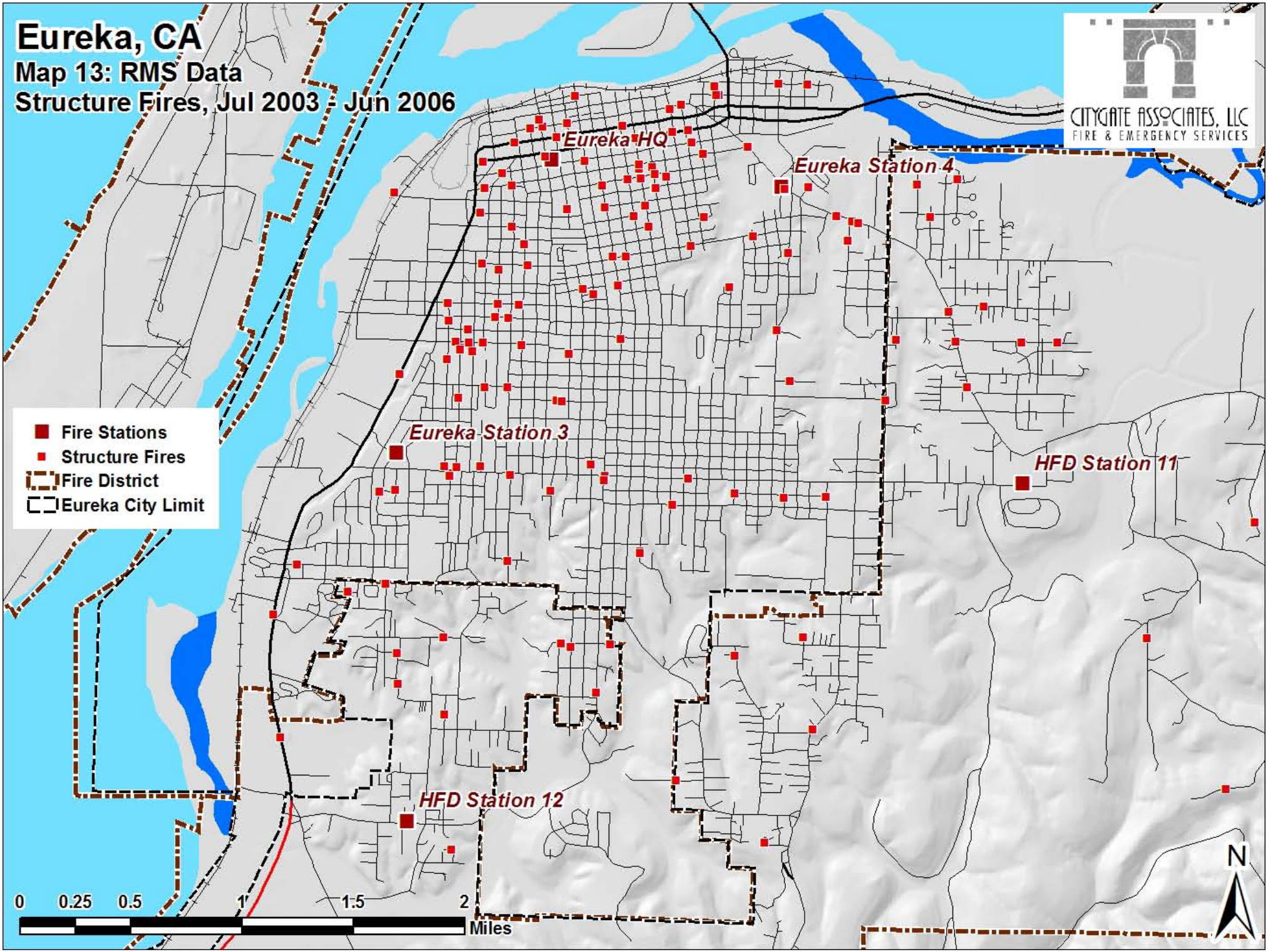

Eureka, CA
Map 8: Fire Stations
8 Minute Travel, Battalion Chiefs
CITYGATE ASSOCIATES, LLC
FIRE & EMERGENCY SERVICES
BC 1
Eureka HQ
Eureka Station 4
Eureka Station 3
BC 11
HFD Station 11
HFD Station 12
Battalion Chief
Fire Stations
BC 8 Minute Travel Network
BC 8 Minute Travel Area
Eureka City Limit
Fire District
0 0.5 1 2 3 4
Miles
N

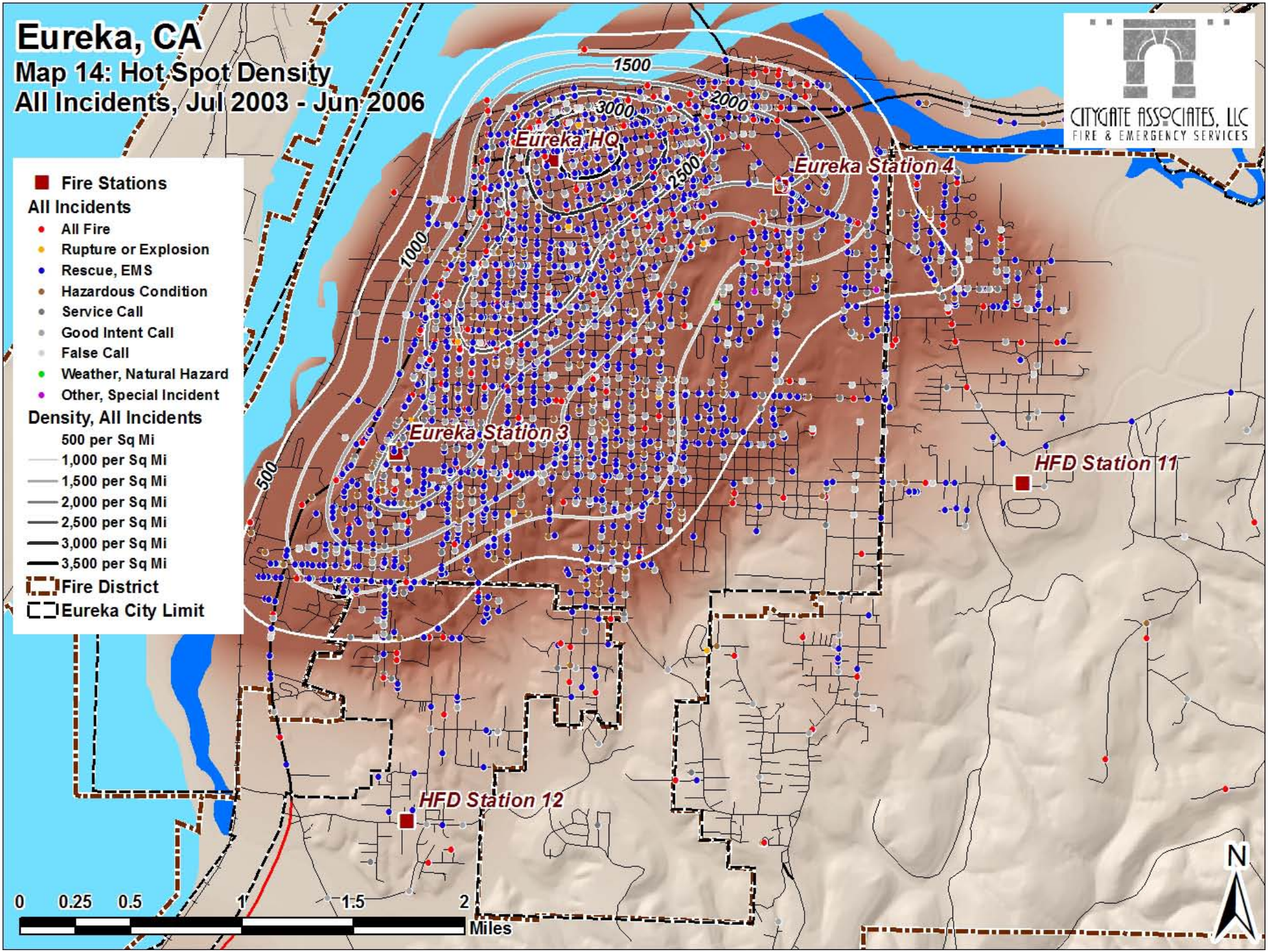

Eureka, CA
Map 9: Fire Stations
8 Minute Travel
Engine Concentration Density
CITYGATE ASSOCIATES, LLC
FIRE & EMERGENCY SERVICES
Battalion Chief
Trucks
Engines
Fire Stations
Eureka City Limit
Fire District
Engine Conc. Density
No Engines
1 Engine
2 Engines
3 Engines
4 Engines
5 Engines
BC 1
Eureka HQ
E 1
T 1
Eureka Station 4
E 4
Eureka Station 3
E 3
BC 11
HFD Station 11
E 11
HFD Station 12
E 12
0
0.25
0.5
1
1.5
2
Miles
N

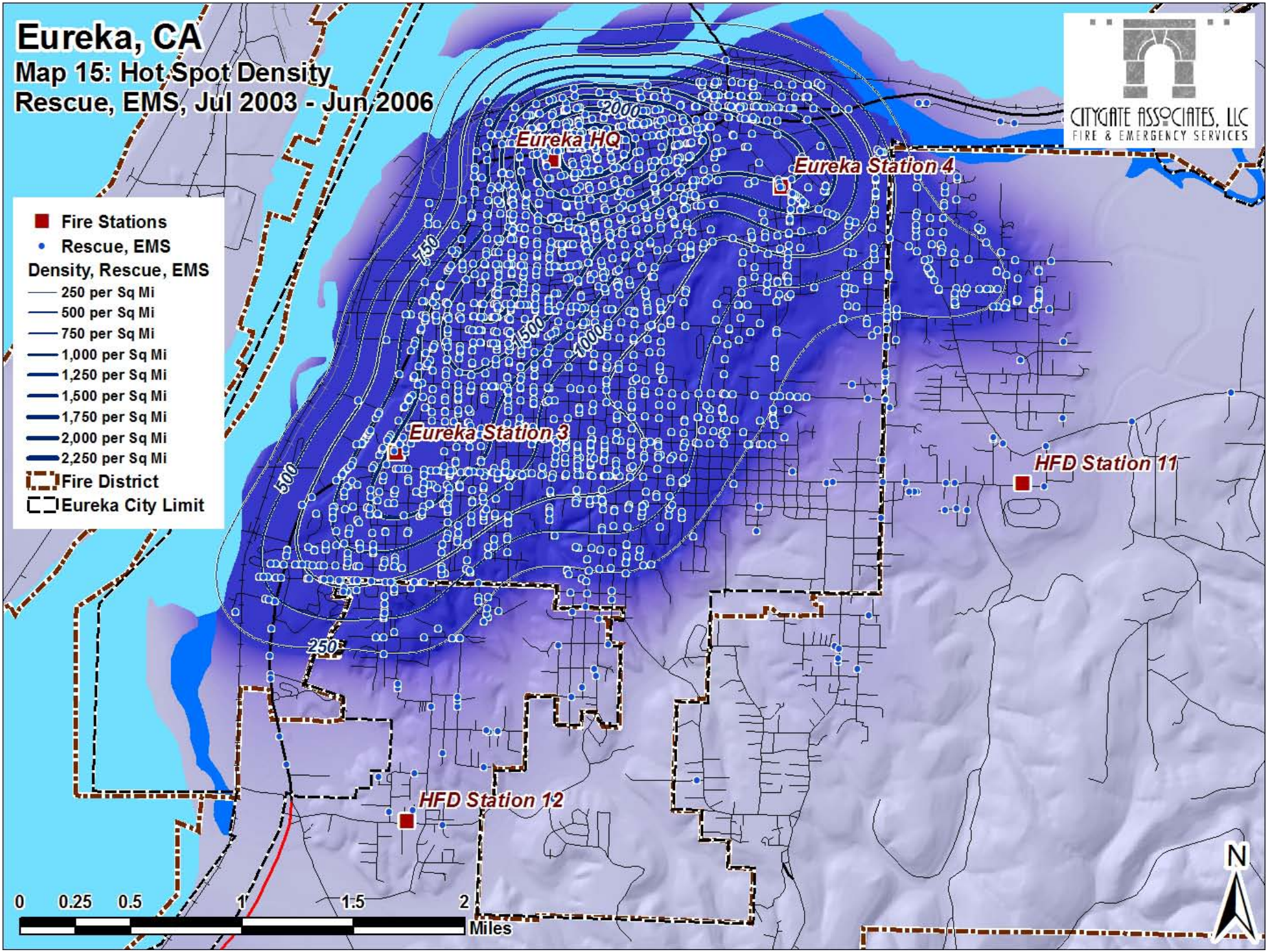

Eureka, CA
Map 10: RMS Data
All Incidents, Jul 2003 - Jun 2006
CITYGATE ASSOCIATES, LLC
FIRE & EMERGENCY SERVICES
Fire Stations
All Incidents
All Fire
Rupture or Explosion
Rescue, EMS
Hazardous Condition
Service Call
Good Intent Call
False Call
Weather, Natural Hazard
Other, Special Incident
Fire District
Eureka City Limit
Eureka HQ
Eureka Station 4
Eureka Station 3
HFD Station 11
HFD Station 12
0
0.25
0.5
1
1.5
2
Miles
N

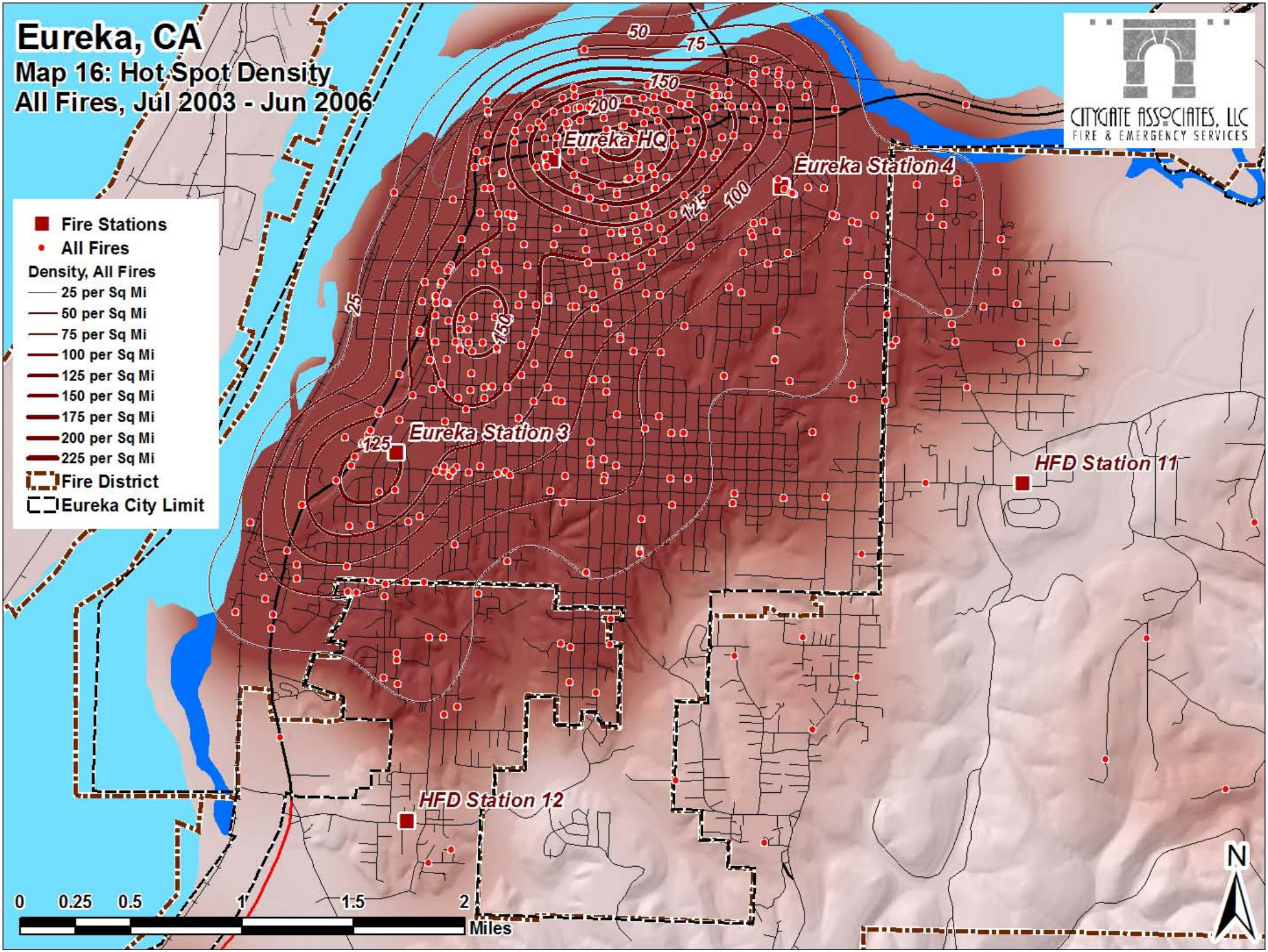

Eureka, CA
Map 11: RMS Data
Rescue, EMS, Jul 2003 - Jun 2006
CITYGATE ASSOCIATES, LLC
FIRE & EMERGENCY SERVICES
Rescue, EMS
Fire District
Eureka City Limit
0
0.25
0.5
1
1.5
2
Miles
N

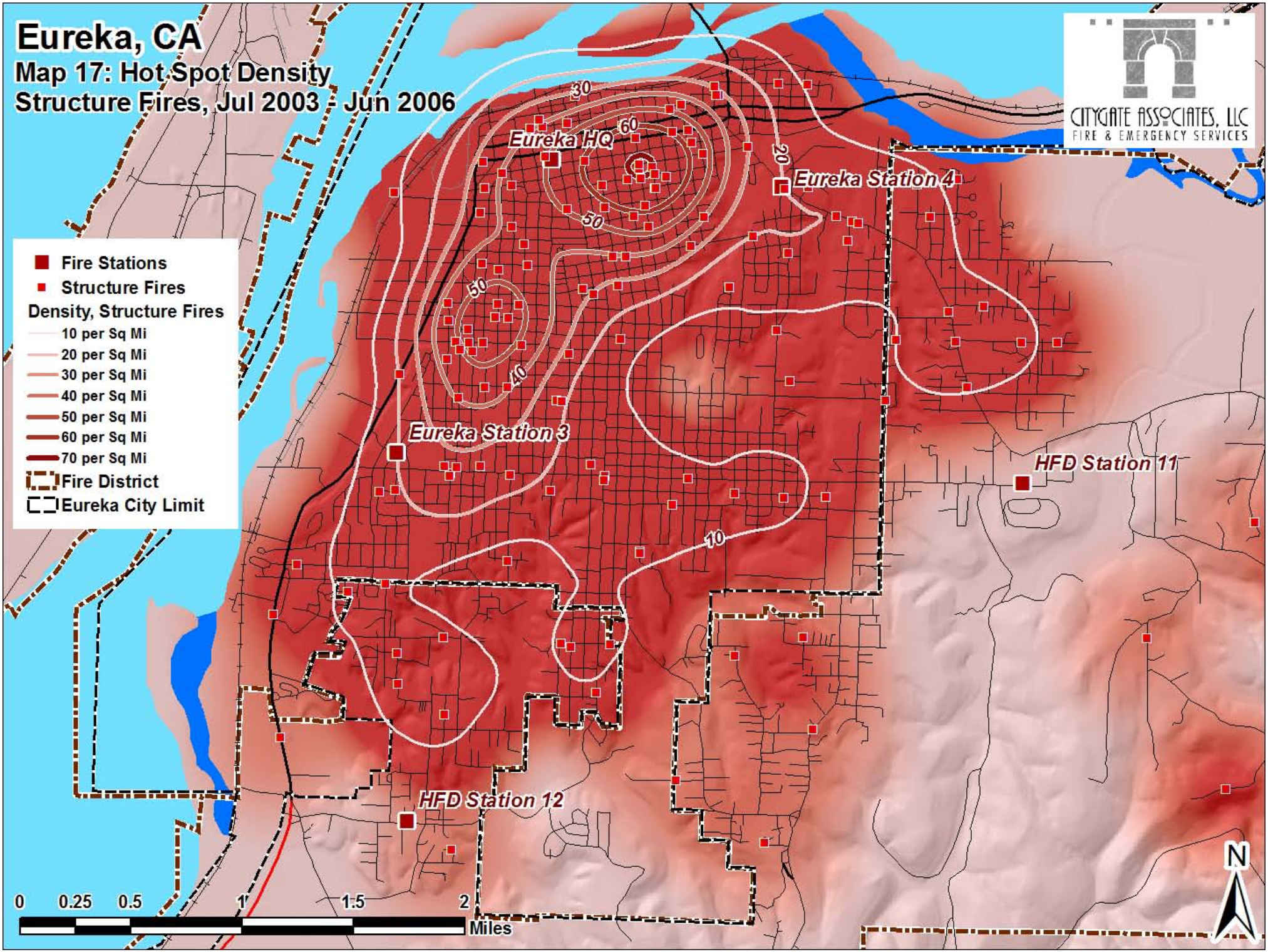

Eureka, CA
Map 12: RMS Data
All Fires, Jul 2003 - Jun 2006
CITYGATE ASSOCIATES, LLC
FIRE & EMERGENCY SERVICES
Eureka HQ
Eureka Station 4
Eureka Station 3
HFD Station 11
HFD Station 12
Fire Stations
All Fires
Fire District
Eureka City Limit
0
0.25
0.5
1
1.5
2
Miles
N


Eureka, CA
Map 13: RMS Data
Structure Fires, Jul 2003 - Jun 2006
CITYGATE ASSOCIATES, LLC
FIRE & EMERGENCY SERVICES
Eureka HQ
Eureka Station 4
Eureka Station 3
HFD Station 11
HFD Station 12
Fire Stations
Structure Fires
Fire District
Eureka City Limit
0
0.25
0.5
1
1.5
2
Miles
N


Eureka, CA
Map 14: Hot Spot Density
All Incidents, Jul 2003 - Jun 2006
CITYGATE ASSOCIATES, LLC
FIRE & EMERGENCY SERVICES
Fire Stations
All Incidents
All Fire
Rupture or Explosion
Rescue, EMS
Hazardous Condition
Service Call
Good Intent Call
False Call
Weather, Natural Hazard
Other, Special Incident
Density, All Incidents
500 per Sq Mi
1,000 per Sq Mi
1,500 per Sq Mi
2,000 per Sq Mi
2,500 per Sq Mi
3,000 per Sq Mi
3,500 per Sq Mi
Fire District
Eureka City Limit
1500
3000
2000
2500
1000
500
Eureka HQ
Eureka Station 4
Eureka Station 3
HFD Station 11
HFD Station 12
0
0.25
0.5
1
1.5
2
Miles
N


Eureka, CA
Map 15: Hot Spot Density
Rescue, EMS, Jul 2003 - Jun 2006
CITYGATE ASSOCIATES, LLC
FIRE & EMERGENCY SERVICES
Fire Stations
Rescue, EMS
Density, Rescue, EMS
250 per Sq Mi
500 per Sq Mi
750 per Sq Mi
1,000 per Sq Mi
1,250 per Sq Mi
1,500 per Sq Mi
1,750 per Sq Mi
2,000 per Sq Mi
2,250 per Sq Mi
Fire District
Eureka City Limit
Eureka HQ
Eureka Station 4
Eureka Station 3
HFD Station 11
HFD Station 12
2000
1750
1500
1000
750
500
250
0
0.25
0.5
1
1.5
2
Miles
N


Eureka, CA
Map 16: Hot Spot Density
All Fires, Jul 2003 - Jun 2006
CITYGATE ASSOCIATES, LLC
FIRE & EMERGENCY SERVICES
Fire Stations
All Fires
Density, All Fires
25 per Sq Mi
50 per Sq Mi
75 per Sq Mi
100 per Sq Mi
125 per Sq Mi
150 per Sq Mi
175 per Sq Mi
200 per Sq Mi
225 per Sq Mi
Fire District
Eureka City Limit
50
75
150
200
Eureka HQ
Eureka Station 4
125
100
25
150
125
Eureka Station 3
HFD Station 11
HFD Station 12
0
0.25
0.5
1
1.5
2
Miles
N


Eureka, CA
Map 17: Hot Spot Density
Structure Fires, Jul 2003 - Jun 2006
CITYGATE ASSOCIATES, LLC
FIRE & EMERGENCY SERVICES
Fire Stations
Structure Fires
Density, Structure Fires
10 per Sq Mi
20 per Sq Mi
30 per Sq Mi
40 per Sq Mi
50 per Sq Mi
60 per Sq Mi
70 per Sq Mi
Fire District
Eureka City Limit
Eureka HQ
Eureka Station 4
Eureka Station 3
HFD Station 11
HFD Station 12
30
60
20
50
50
40
10
0
0.25
0.5
1
1.5
2
Miles
N