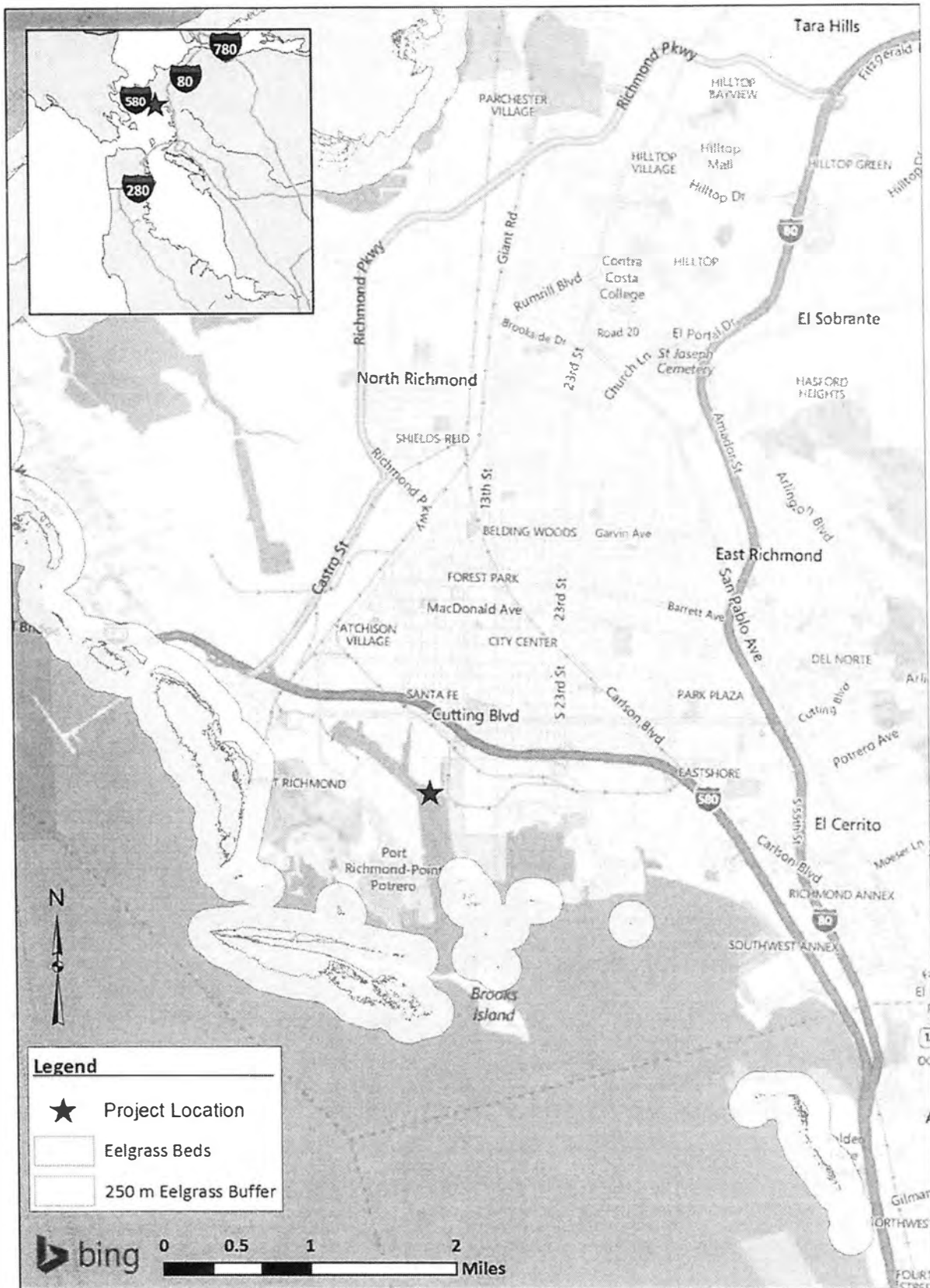
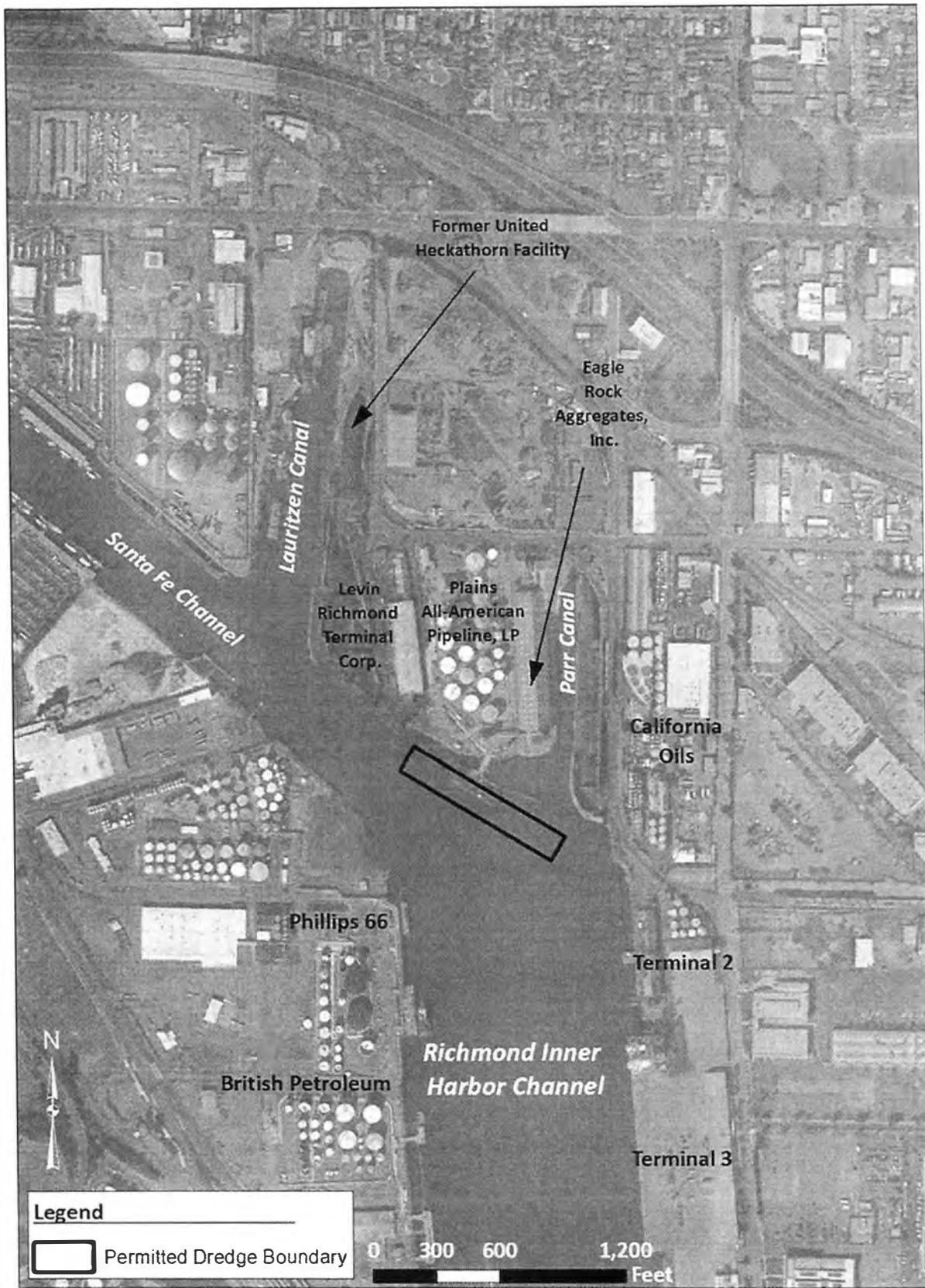


<p>Applicant: Eagle Rock Aggregates, Inc. Project: Plains Richmond Terminal Purpose: Maintenance Dredging USACE File #2016-00218</p>	<p>Project Location Map Location: Richmond, Contra Costa County, CA Date: July 28, 2016 (Sheet 1 of 6)</p>
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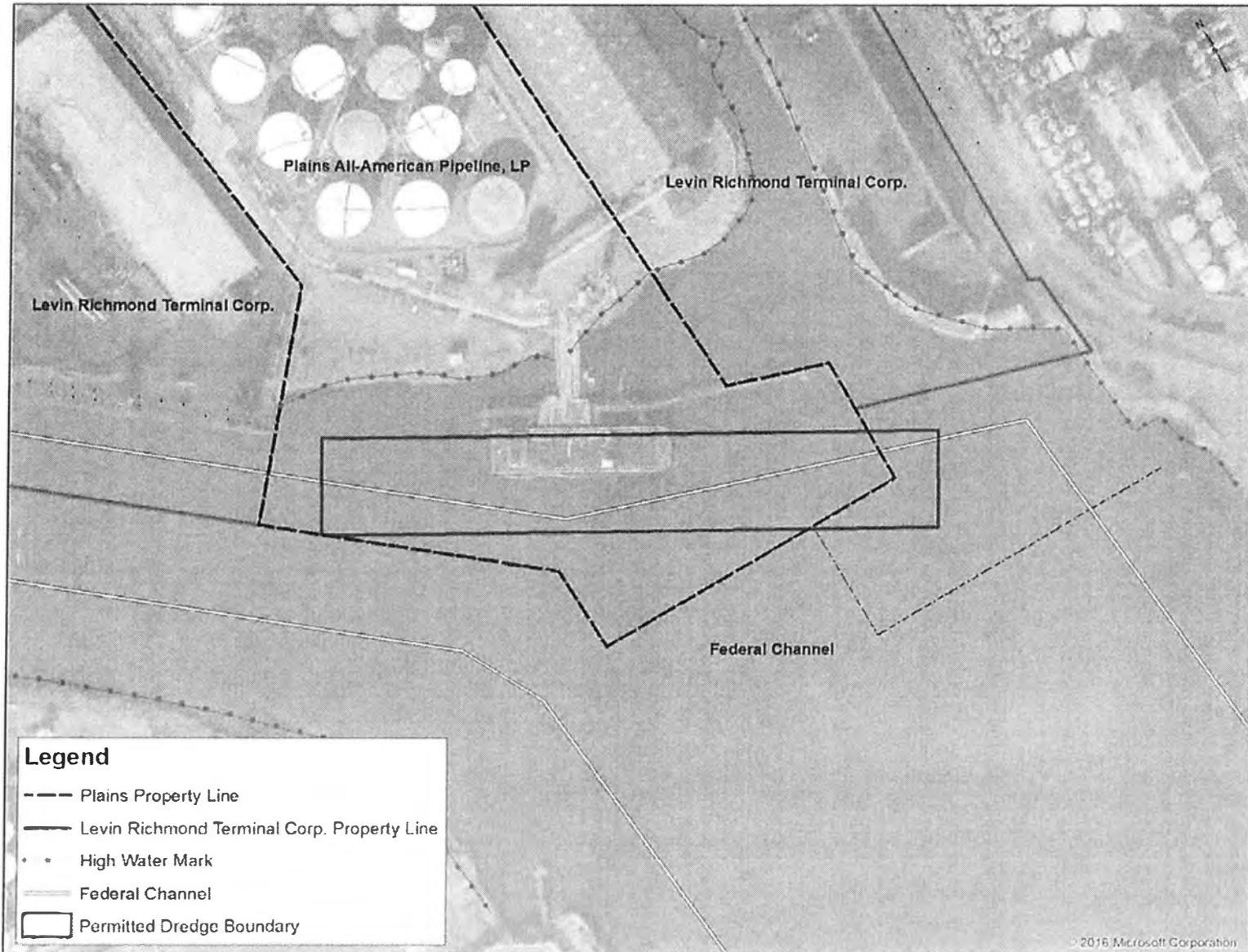
Applicant: Eagle Rock Aggregates, Inc.
 Project: Plains Richmond Terminal
 Purpose: Maintenance Dredging
 USACE File #2016-00218

Project Location Map
 Location: Richmond, Contra Costa County, CA
 Date: July 28, 2016
 (Sheet 2 of 6)



Applicant: Eagle Rock Aggregates, Inc.
 Project: Plains Richmond Terminal
 Purpose: Maintenance Dredging
 USACE File #2016-00218

Project Location Map
 Location: Richmond, Contra Costa County, CA
 Date: July 28, 2016
 (Sheet 3 of 6)



<p>Applicant: Eagle Rock Aggregates, Inc. Project: Plains Richmond Terminal Purpose: Maintenance Dredging</p>	<p>USACE File #2016-00218 Location: Richmond, Contra Costa County, CA Project Area: 2.52 acres</p>	<p>Project Property Line Map Date: July 28, 2016 (Sheet 4 of 6)</p>
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- Legend**
- Proposed Sample Locations
 - Actual Sample Locations
 - - - Plains Property Line
 - Federal Channel
 - █ Episode 1 Dredge Footprint (1-38.6' MLLW)
 - Permitted Dredge Boundary

PACIFIC ECORISK ENVIRONMENTAL CONSULTING & TESTING

0 115 230 450
 Feet

Horizontal Datum: NAD83
 Map Projection: California State Plane
 Coordinate System (SPCS), Zone 3
 Units: Feet
 1:848

- Notes:**
1. Survey conducted by PDI, Inc. on April 14, 2016 and is representative of the sea floor at the time of the survey.
 2. Numbers shown represent depths at 0.0' tide (MLLW Datum).
 3. Depths are in feet and tenths of a foot.
 4. Benchmark is C.D.S. Tide Boards at the corner of the Mission Pier (932 09187 (4523860)).
 5. Horizontal Datum is California State Plane Coordinate System, Zone III (NAD83).
 6. Equipment Used: Starlink BGPS, OTCOM D9200 (achometer w/ 3 degree transducer, Hypack "MAX" Software.

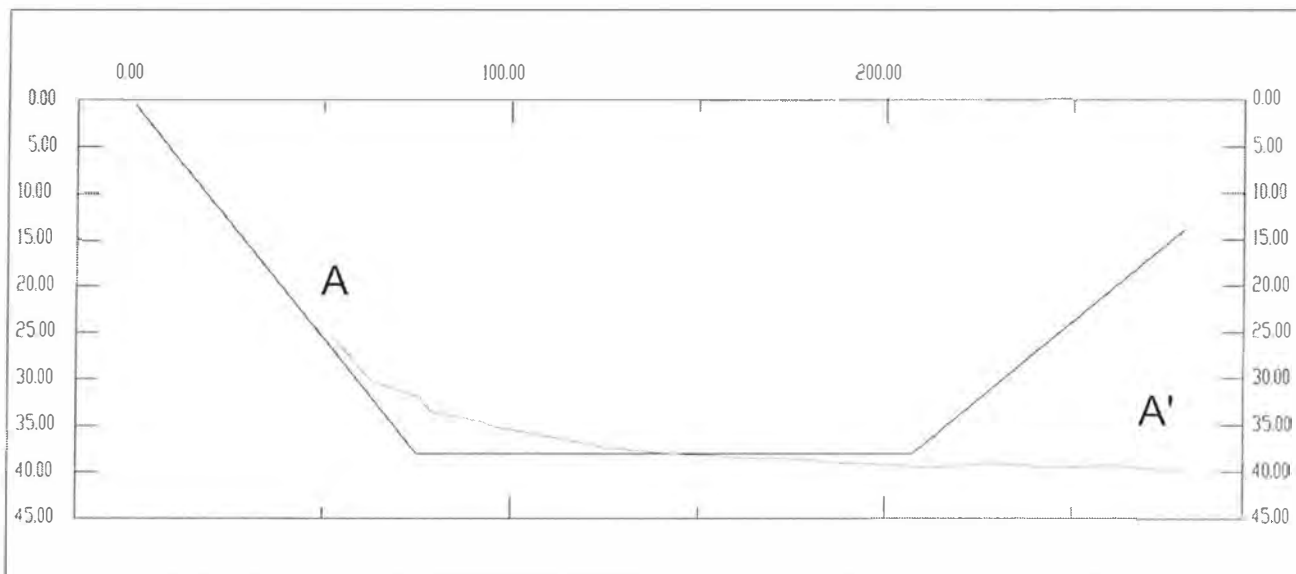
Applicant: Eagle Rock Aggregates, Inc.
 Project: Plains Richmond Terminal
 Purpose: Maintenance Dredging

USACE File #2016-00218
 Location: Richmond, Contra Costa County, CA
 Project Area: 2.52 acres

Project Site Map
 Date: July 28, 2016
 (Sheet 5 of 6)

Plains All American Terminals

Typical Cross-Section



	Plains All American Pipeline LP
	933 Clay St STE 1600 Houston TX 77002



DATE: JUNE 21, 2016	
DESIGNED BY	CHECKED BY
CONTRACT #	
PERMIT #	EPISODE #
PROJECT NAME	

Eagle Rock Aggregates Singlebeam Survey
Cross-Section

Reference Number: S1

Applicant: Eagle Rock Aggregates, Inc. Project: Plains Richmond Terminal Purpose: Maintenance Dredging	USACE File #2016-00218 Location: Richmond, Contra Costa County, CA Project Area: 2.52 acres	Project Typical Cross Section Date: July 28, 2016 (Sheet 6 of 6)
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