

### Phase 3: Reef Expansion Project Scope

- 200-acre low relief reef
- Same design as Wheeler North Reef 12-15 meters deep
- Known performance
- 9 years of biological information
- Requires the least amount of rock
- 150 thousand tons of rock
- 44 barge trips
- 3 separate quarries



## **Reef Expansion Project Permits**



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#### **Reef Expansion Project – The Construction Process**

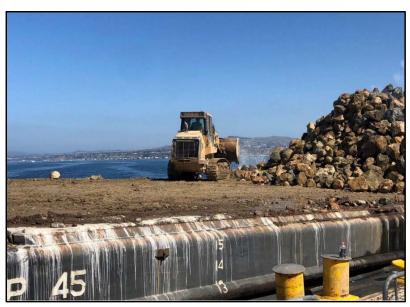


Two-season construction: July – September 2019 June – July 2020



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#### **Marine Wildlife**

Three full time marine wildlife observers on deck during construction to protect wildlife

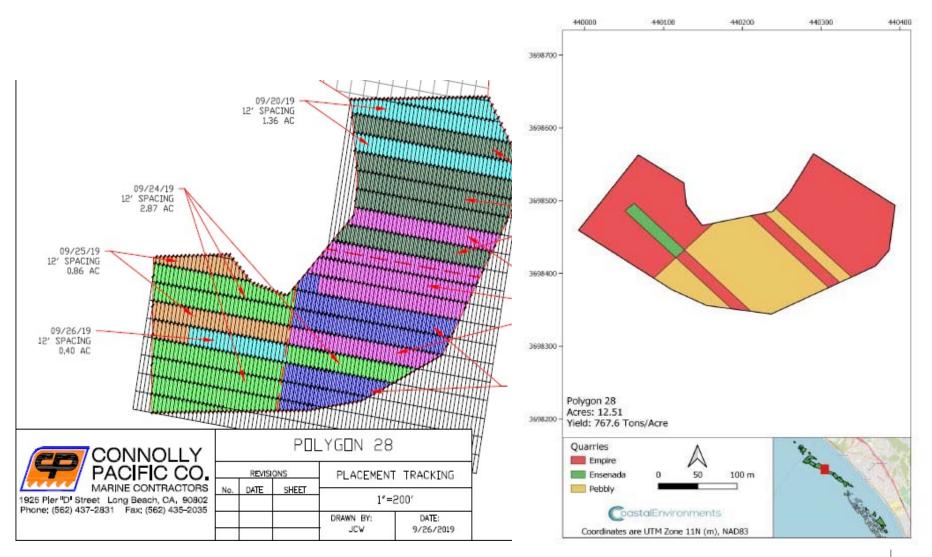
#### **Monitor Roles:**

- Species identification
- Monitor compliance with applicable laws
- Stop Work Authority to avoid marine animal collisions or harm





#### **Construction Verification**



#### Wheeler North Reef Expansion As-Built

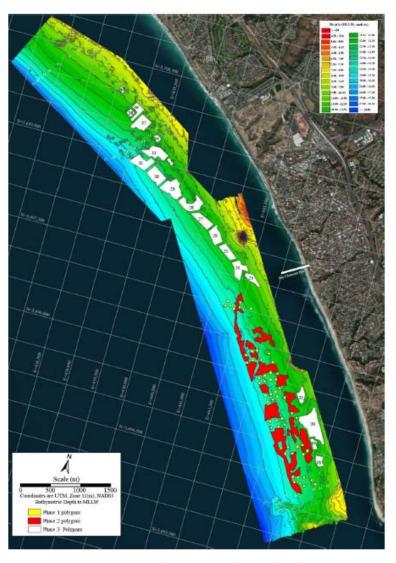


Figure 1-2. As-built WNR Phase 3 Expansion (201.7 acres), white polygons.



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# Wheeler North Expansion Post-Construction July 2020

#### On Budget and Ahead of Schedule

20 new polygons of quarry rock
41,868 manhours worked without incident
150,973 tons of rock
49 total barge trips
3 separate quarries
197.4 acres
3% above hard substrate cover requirement

Wheeler Reef Total 374-acre artificial reef, 5 miles long, 270,000 tons

Integrity \* Continuous Improvement \* Excellence \* Teamwork \* Safety

# Wheeler Construction Team Practicing COVID-19 Safety

