#### <u>Index to</u> <u>Union Oil Company of California (UNOCAL)'s</u> <u>Most Feasible Plan for Evaluation/Remediation</u>

#### LDNR OC Legacy File No. 015-037

#### 1. <u>Most Feasible Plan for Evaluation/Remediation</u> (Michael Pisani & Associates, October 1, 2015)

(Michael Pisani & Associates, October 1, 2015)

Report

Figures 1 - 68

Tables 1 - 10

<u>Appendix A</u> – David G. Angle's & Michael E. Pisani's Testimony and Publication Lists

<u>Appendix B</u> – Information on Previous Remediation Activities

SED 15 Pit Closure Documents:

Attachment A – MP&A Field Notes

Attachment B – Photographs and Photologs

Attachment C – Laboratory Analytical Data EWL

Attachment D – Groundwater Monitoring Plan

Attachment E - Coastal Use Permit and USACOE Wetlands Permit

Attachment F - Waste Disposal Manifests

Figure 2 – Delineation Samples

Figure 3 – Pit Excavation Limits – SED15 Area

Figure 4 – Confirmation Sample Locations SED 15 Area

Table 3 – MPA Delineation Analytical Data

Table 4 – Pre-Closure Surface Water Analytical Data

 Table 5 – Confirmation Sampling Analytical Data

Table 6 – Backfill Source Samples (Pit Closure)

Table 7 – Waste Characterization Analytical Data

Site Restoration Work Activities

<u>Appendix C</u> – Costs Backup Information, MP&A's Most Feasible Plan for Evaluation/Remediation

<u>Appendix D</u> – Statewide Order 29-B Only Plan (*LAC 43:XIX.§611.F.1*) and Estimated Costs

<u>Appendix E</u> – Laboratory Data Reports

<u>Appendix F</u> – Other Supporting Materials

#### 2. <u>Site Investigation Report and RECAP Evaluation</u>

(Environmental Resource Management / Angela Levert, October 1, 2015)

Report

Tables

Figures

<u>Appendix A</u> – Summary of RECAP Forms

Appendix B – Water Well Survey Results

<u>Appendix C</u> – Quality Assurance Project Plan/ Sampling Analysis and Assessment Plan for Crab and Forage Fish Tissue at the East White Lake Oilfield

Appendix D – Crab and Fish Collection Report

<u>Appendix E</u> – Chemical Analytical Data

<u>Appendix F</u> – Data Quality Review Documentation

<u>Appendix G</u> – Supporting Calculations for RECAP Standard Development

<u>Appendix H</u> – East White Lake Oil and Gas Field Seafood Sampling Evaluation by Louisiana Department of Health and Hospitals (March 13, 2015)

<u>Appendix I</u> – Fish Tissue Data Collected by LDEQ for Mercury Monitoring Program, Subsegment 050703 (White Lake Appendix J – Ecological Checlist

<u>Appendix K</u> – Assessment of Sediment Direct Contact Using Analytical Results in Dry Weight

<u>Appendix L</u> – Laboratory Reports for Biota Samples

#### 3. Ecological Risk Assessment (John H. Rodgers, Jr., Ph.D., September 30, 2015)

Report (with Figures 1-2 and Tables 1-11 embedded)

Tables 12-21

Figures 3-4

#### 4. <u>Report of Barbara D. Beck, Ph.D., DABT, Fellow ATS</u> (Gradient / Beck, October 1, 2015)

Report

Tables

Figures

Appendix A – Data Considered in Risk Assessment

Appendix B – Risk Assessment Calculations

Appendix C – Risk Assessment Calculations for Sensitivity Analyses

Appendix D - C.V. for Dr. Beck

### 5. <u>Report of Calvin C. Barnhill, P.E.</u> (September 20, 2015)

Report

Attachment A – Reference List

Attachment B – Resume

## Index for Michael Pisani & Associates Appendix F (Additional Materials Supporting Most Feasible Plan Recommendation)

Tab	Prepared by	Date	Title
F1	John Rodgers, Ph.D.*	06/28/2010	Site Assessment & Expert Report
F2	John Rodgers, Ph.D. and Helen Connelly, Ph.D.*	06/05/2014	Supplemental Ecological Expert Report
F3	Kenneth Jenkins, Ph.D.*	06/05/2014	Expert Report
F4	John Frazier, Ph.D., CHP*	06/15/2010	Expert Report
F5	John Frazier, Ph.D., CHP*	06/05/2014	Supplemental Expert Report
F6	John Frazier, Ph.D., CHP*	02/16/2015	Second Supplemental Expert Report
F7	U.R.S. / David Lingle*	06/29/2010	Screening-Level Ecological Risk Assessment
F8	U.R.S. / David Lingle*	10/15/2014	Incorporation of Additional Laboratory Analytical Data for Screening-Level Ecological Risk Assessment
F9	Calvin C. Barnhill, P.E.	02/13/10	Expert Report
F10	Calvin C. Barnhill, P.E.	02/15/15	Supplemental Expert Report
F11	Mary L. Barrett, Ph.D.	06/14/10	Expert Report
F12	Mary L. Barrett, Ph.D.	07/18/10	Supplemental Expert Report
F13	Mary L. Barrett, Ph.D.	07/19/10	Supplemental Expert Report
F14	Mary L. Barrett, Ph.D.	02/16/15	Supplemental Expert Report
F15	Mark Byrnes	06/29/10	Expert Report
F16	Arville Touchet	6/16/2010	Expert Report
F17	Arville Touchet	6/28/2010	Expert Report
F18	Arville Touchet	7/11/2010	Amended Expert Report
F19	Arville Touchet	10/8/2010	Amended Expert Report

# East White Lake Oil and Gas Field Vermilion Parish, Louisiana

\*Copy previously transmitted to LDNR but also attached in this Appendix for ease of reference.