DOCKETE	C <b>D</b>
Docket Number:	12-AFC-02C
Project Title:	Huntington Beach Energy Project - Compliance
TN #:	212912
<b>Document Title:</b>	HBEP Monthly Compliance Report for July 2016
<b>Description:</b>	Monthly Compliance Report (MCR) for Huntington Beach (HBEP) Construction (Demo), July 2016
Filer:	Eric Veerkamp
Organization:	California Energy Commission
<b>Submitter Role:</b>	Commission Staff
Submission Date:	8/23/2016 8:30:34 AM
<b>Docketed Date:</b>	8/23/2016

August 12, 2016

Mr. Eric Veerkamp Compliance Project Manager California Energy Commission 1516 9th Street Sacramento, CA 95814

Subject: Huntington Beach Energy Project

Docket No. 12-AFC-02C

Monthly Compliance Report – 003 July 2016, in compliance with COM-6

Dear Mr. Veerkamp:

Enclosed please find the Monthly Compliance Report -003 for the Huntington Beach Energy Project for the month of July 2016, in compliance with COM-6. If you have any questions, please feel free to contact me at (714) 374-1420.

Sincerely,

Joshua Wynia Project Director

Enclosure

cc: Project File

## **Huntington Beach Energy Project**

**Monthly Compliance Report - 003** 

**Report Period: July 2016** 

#### **Submitted to**

California Energy Commission Energy Facilities Siting and Environmental Protection Division 1516 9<sup>th</sup> Street Sacramento, California 95814-5512

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#### **LIST OF ACTIVE CONDITIONS JULY 2016**

AQ-SC3 AQCMP documentation of dust control measures AQ-SC4 Dust plume response AQ-SC5 Diesel fueled engine control BIO-6 Implementation of BRMIMP BIO-5 WEAP training for all on-site workers CUL-5 WEAP training for all on-site workers PAL-4 WEAP training for all on-site workers CUL-2 Weekly report from CRS to CPM of anticipated construction activities for the following week during cultural resources ground disturbance CUL-3 **CRMMP** Implementation GEN-2 Project construction schedule updates GEN-3 CBO payment receipts CIVIL-1, 3, 4 Documenting of all CBO approvals (special inspections, CBO, inspections plan checks, corrective actions, submittals, and all GEN-6, 7, 8 STRUC-1, 3, 4 other CBO approvals) and CBO submittal transmittal letters. NOISE-2 Noise compliant PAL-3 PRMMP Implementation WASTE-2 Construction waste management WASTE-5 Construction waste management **WORKER SAFETY-3** SCC monthly safety inspection report **WORKER SAFETY-5** Proof of AED on site

### **List of Acronyms**

Acronym	Definition
AQCMM	Air Quality Construction Mitigation Manager
AQCMP	Air Quality Construction Mitigation Plan
AST	Aboveground Storage Tank
BRMIMP	Biological Resources Mitigation Implementation and Monitoring Plan
CAL-OSHA	California Occupational Safety and Health Administration
СВО	Chief Building Official
CEC	California Energy Commission
COC	Condition of Certification
CRS	Cultural Resources Specialist
CRMMP	Cultural Resources Mitigation and Monitoring Plan
СРМ	Compliance Project Manager
DB	Designated Biologist
FTP	File Transfer Protocol
HBEP	Huntington Beach Energy Project
LNTP	Limited Notice To Proceed
SCAQMD	South Coast Air Quality Management District
SWPPP	Storm Water Pollution Prevention Plan
PRMMP	Paleontological Resources Monitoring and Mitigation Plan
WEAP	Worker Environmental Awareness Program

#### 1. CURRENT PROJECT CONSTRUCTION STATUS

Asbestos abatement on the large fuel oil aboveground storage tank (AST) was completed by Argus Contracting on July 1, 2016. Safeway began disassembly of the scaffolding around the AST on July 5th and completed on July 8, 2016. Argus and Safeway demobilized and left the site on July 8<sup>th</sup>.

W.A. Rasic (WAR) was awarded the fuel oil pipeline cleaning and capping work for the four (4) fuel oil lines that traverse the demolition work area. A pre-construction meeting was held on July 12, 2016. Meeting participants included representatives from WAR, AES and NV5. WAR mobilized and completed health and safety and environmental training on July 25, 2016. WAR completed a walk down of the fuel oil piping, identified cold cut locations, and stripped insulation in the work areas during July 25-29, 2016.

GSD was awarded the LNTP demolition work scope to complete the following.

- Demolition of Structures including Unit #5 peaker building and compressor building, aboveground storage tanks, abandoned fuel lines and ancillary equipment.
- Excavations and stockpiling of containment berm.

The updated construction schedule is included in Appendix A of this report. A key events list is provided in Appendix B of this report.

#### 2. CONSTRUCTION ACTIVITIES

On-site construction activities for this reporting period are presented below.

- Scaffolding removed from around the AST
- WAR mobilized to the site for fuel oil line cleaning and capping.
- Insulation removed from the fuel oil lines in 3 foot (ft) sections at 20 locations to support draining fuel oil lines and capping.
- Two sections of abandoned steel piping (totaling 96 feet) were found in the demolition area with an ACM pipe wrap coating. The coating abatement is planned to start on August 1, 2016 and is expected to take 3 days to complete.

#### 3. COMPLIANCE MATRIX

#### 3.1. CEC Documentation

The updated CEC Compliance Matrix is included in Appendix C.

#### 3.2. CBO Documentation

Documentation for CBO related activities for this reporting period are included in Appendix D of this report. This documentation includes:

- Copies of documents uploaded to the CBO's FTP site for this reporting period and are listed in Table 3.2-1;
- Updated CBO Matrix (per GEN-2) and schedule updates.
- A copy of the CBO payment receipt for this reporting period (per GEN-3).

Table 3.2-1 Documentation Uploaded to CBO FTP Site

coc	Description	Date Submitted
GEN-1	Updated CBO Matrix	7/20/2016
SOIL&WATER -1	Construction SWPPP	7/20/2016
	RAW Site Specific Safety Plan	7/27/2016
WORKER SAFETY-1	RAW Work Plan Procedure	7/27/2016
WORKERSAFETY-1	RAW Spill Prevention Plan	7/27/2016
	GSD Site Specific Health and Safety Plan	7/28/2016

#### 4. REQUIRED DOCUMENTS SUBMITTED WITH THIS REPORT

#### 4.1. Air Quality

AES has elected to implement AQ-SC2 Air Quality Construction Mitigation Plan (AQCMP) for this monthly reporting period in the spirit of adherence to relevant conditions of certification. Full implementation of the AQCMP will begin with the start of ground disturbance. Required documentation for the MCR is detailed in AQ-SC3 Construction Fugitive Dust Control; AQ-SC4 Dust Plume Response Requirement; and AQ-SC5 Diesel-Fueled Engine Control.

#### 4.1.1. AQ-SC3 Construction Fugitive Dust Control

The field activities that are to be documented in the monthly reporting period for AQ-SC3 are detailed in Attachment 2 of the AQCMP.

No activities associated with construction fugitive dust control were required or performed during this monthly reporting period.

#### 4.1.2. AQ-SC4 Dust Plume Response Requirement

As required by AQ-SC4, the AQCMM shall provide the CPM a MCR to include:

- A summary of all actions taken to maintain compliance with this condition;
- Copies of any air quality-related complaints filed with the district or facility representatives in relation to project construction; and
- Any other documentation deemed necessary by the CPM and AQCMM to verify compliance with this condition. Such information may be provided via electronic format or disk at the project owner's discretion.

No activities associated with construction fugitive dust control were required or performed during this monthly reporting period.

#### 4.1.3. AQ-SC5 Diesel-Fueled Engine Control

As required by AQ-SC5 Diesel-Fueled Engine Control, the AQCMM shall provide the CPM a MCR to include:

- A summary of all actions taken to control diesel construction related emissions;
- A list of all heavy equipment used on site during that month, showing the tier level of each engine and the basis for alternative compliance with this condition for each engine not meeting Part "b" or Part "c" requirements. The list shall include the owner of the equipment and a letter from each owner indicating that the equipment has been properly maintained; and
- Any other documentation deemed necessary by the CPM and AQCMM to verify compliance with this condition. Such information may be provided via electronic format or disk at the project owner's discretion.

AES has elected to document the use of a diesel-fueled generator used to supply temporary power for lead and asbestos abatement/monitoring activities. The generator is no longer required and was removed from site on July 8, 2016. Specific information regarding the use of this equipment is provided below and further documentation is included in Appendix E.

- Generator Run Time
  - Generator was onsite during a portion of the reporting period but did not accrue any run hours during the month of July 2016.
- Diesel fuel receipts
  - Argus added approximately 19 gallons of diesel fuel in the month of July 2016 (total cumulative gallons 121).

AES has elected to document the use of diesel-fueled equipment mobilized to the site by RAW to

conduct fuel oil line cleaning and capping activities. The following equipment was mobilized to the site on July 25, 2016:

- Kaeser M50 air compressor,
- CASE 590SN Backhoe, and
- Lincoln Electric SAE-300 HE welder.

Although the equipment was placed and staged onsite during the reporting period, it was not operated and therefore there are no run hours or fuel usage data to report. Specific information regarding this equipment is included in Appendix E.

No other diesel-fueled equipment was used on-site during the reporting period.

#### 4.2. Worker Environmental Awareness Program Training

WEAP training during the reporting period was administered via electronic media. Appendix F includes WEAP training Certification of Completion forms for this reporting period. Twenty workers received training during this reporting period. A total of 61 workers have received WEAP training for the project.

#### 4.3. Biological Resources: BIO-6 BRMIMP

In accordance with BIO-6, Biological Resources Mitigation Implementation and Monitoring Plan (BRMIMP), HBEP conducted periodic monitoring and biological resources surveys during preconstruction activities. Biological Resources Monitoring Logs and the AES Construction Digital Database (Unifier) summary are included in Appendix G.

No activities associated with BRMIMP were required or performed during this monthly reporting period.

#### 4.4. Cultural Resources

#### 4.4.1. CUL-5 Cultural Resources Worker Environmental Awareness Program

As required by CUL-5, Cultural Resources WEAP, until ground disturbance is completed, the project owner shall provide the WEAP Certification of Completion forms (Appendix F) for workers who have completed the training in the prior month and a running total of all persons who have completed training to date. Twenty workers received training during this reporting period. A total of 71 workers have received WEAP training for the project.

#### 4.4.2. CUL-6 Undiscovered Cultural Resources

As required by CUL-6, Undiscovered Cultural Resources, the project owner shall include a summary of cultural resources discovered during monitoring in the MCR. As appropriate, the CRS shall attach any new DPR 523A forms completed for finds treated prescriptively, as specified in the CRMMP.

No activities associated with CUL-6 were required or performed during this monthly reporting period. Future activities will be included in Appendix H.

#### 4.5. PAL-5 Paleontological Resources Worker Environmental Awareness Program

As required by PAL-5, WEAP, the project owner shall provide copies of the WEAP Certification of Completion forms (Appendix F) with the names of those trained and the trainer or type of training (inperson and/or video) provided during the reporting period and a running total of all persons who have completed training to date. Twenty workers received training during this reporting period. A total of 61 works have received training for the project.

No mitigation activities associated with paleontological resources were required or performed during this monthly reporting period. Future activities will be included in Appendix I.

#### 4.6. Worker Safety

#### 4.6.1. WORKER SAFETY-3 Construction Safety Supervisor

As detailed in the WORKER SAFETY-3 Construction Safety Supervisor, the MCR will include:

- Record of all employees trained for that month (all records shall be kept on site for the duration of the project);
- Summary report of safety management actions and safety-related incidents that occurred during the month;
- Report of any continuing or unresolved situations and incidents that may pose danger to life or health; and
- Report of accidents and injuries that occurred during the month.

#### **Safety Training**

Appendix J includes a list of the sign-in sheets for individuals who have completed the site orientation safety and environmental training for this monthly reporting period.

#### **Safety Management Actions and Safety Incidents**

These activities are conducted daily and include Safety Tours/Walks; Contractor Foreman's meeting; and Morning Tailboards. Records of these activities are maintained in Unifier.

AES performs daily safety observations which are included in Appendix J. No safety management actions or safety incidents were reported in the monthly reporting period.

#### **Continuing or Unresolved Situations**

• None to report

#### First Aid or Recordable Injuries

#### None to report

#### 4.6.2. WORKER SAFETY-5 Automatic External Defibrillator

As detailed in the WORKER SAFETY-5 Automatic External Defibrillator, the MCR will include proof that a portable automatic external defibrillator exists on site, which is included in Appendix J.

# 5. COMPLIANCE REQUIREMENTS COMPLETED DURING THE REPORTING PERIOD

Table 5-1 contains a summary of Conditions of Certification submittals and status during this reporting period.

CEC Date COC **Description Approval** Status Submitted **Date** Re-Cultural Resources Mitigation and Monitoring CEC CUL-3 Submitted plan (CRMMP) Review 7/21/16 CEC WORKER Demo-GSD Site Specific Health and Safety Plan 7/27/2016 Review **SAFETY-1** 

**Table 5-1** Compliance Submittals

#### 6. COMPLIANCE SUBMITTALS PENDING APPROVAL

The below submittals in Table 6-1 exceed the review time stated in the COCs.

COC Description Date Submitted Status

GEO-2 Compliance with City of Huntington Beach Municipal Code Section 17.04.085 5/16/16 CEC Review

Table 6-1 Compliance Submittals Pending Approval

#### 7. CHANGES TO CONDITIONS OF CERTIFICATION

Reference documentation for VIS-3, WORKER SAFETY-1 and BIO-8 are included in Appendix K.

# 7.1.1. VIS-3 Long-Term Construction Screening, Landscape Protection, and Site Restoration Plan – Project Demolition, Construction, and Commissioning

Due to the Limited Notice to Proceed (LNTP) activities approved by the CEC, AES proposed an amended VIS-3 submittal to specifically address the activities being performed under LNTP activities. The LNTP VIS-3 submittal was approved by the CEC 5/3/2016 with the understanding that a comprehensive VIS-3 submittal would be submitted during 4<sup>th</sup> quarter 2016.

#### 7.1.2. WORKER SAFETY-1 Project Construction Safety and Health Program

Due to the LNTP activities approved by the CEC, AES proposed an amended WORKER SAFETY-1 submittal to specifically address the activities being performed under LNTP activities. The submittal (site-specific health and safety plan) specifically addressed the asbestos and lead abatement project and was approved by the CEC 5/9/2016 with the understanding that future WORKER SAFETY-1 submittals addressing the remaining three activities will be submitted once the contractor has been selected:

- Clear and Cap Abandoned Fuel Oil Lines (includes asbestos removal);
- Demolition of Structures (Unit #5 Peaker and Compressor Buildings, Aboveground Storage Tanks and Ancillary Equipment); and
- Excavation and Stockpiling of Containment Berms.

# 7.1.3. BIO-8 Pre-Construction Nest Surveys and Impact Minimization Measures for Breeding Birds

The LNTP Conditions of Certifications list established on 9/11/15 between the CEC and AES did not include Condition BIO-8. However through discussions between the CEC and AES, the decision was made to include BIO-8. This condition has been added to the COC matrix. The pre-construction nesting bird surveys will be conducted prior to start of construction in accordance with BIO-8.

#### 8. FILINGS/PERMITS ISSUED BY OTHER GOVERNMENTAL AGENCIES

During this reporting period the following documents were submitted and are included in Appendix L.

 Rule 1403 Form Notification of Demolition or Asbestos Removal was submitted to the South Coast Air Quality Management District (SCAQMD) on July 12, 2016 to provide notice of abatement to remove pipe wrap from abandoned above ground pipes. On July 27, 2016 a revised notice was submitted with a project start date of August 1, 2016

#### 9. COMPLAINTS, NOTICES OF VIOLATIONS, WARNINGS AND CITATIONS

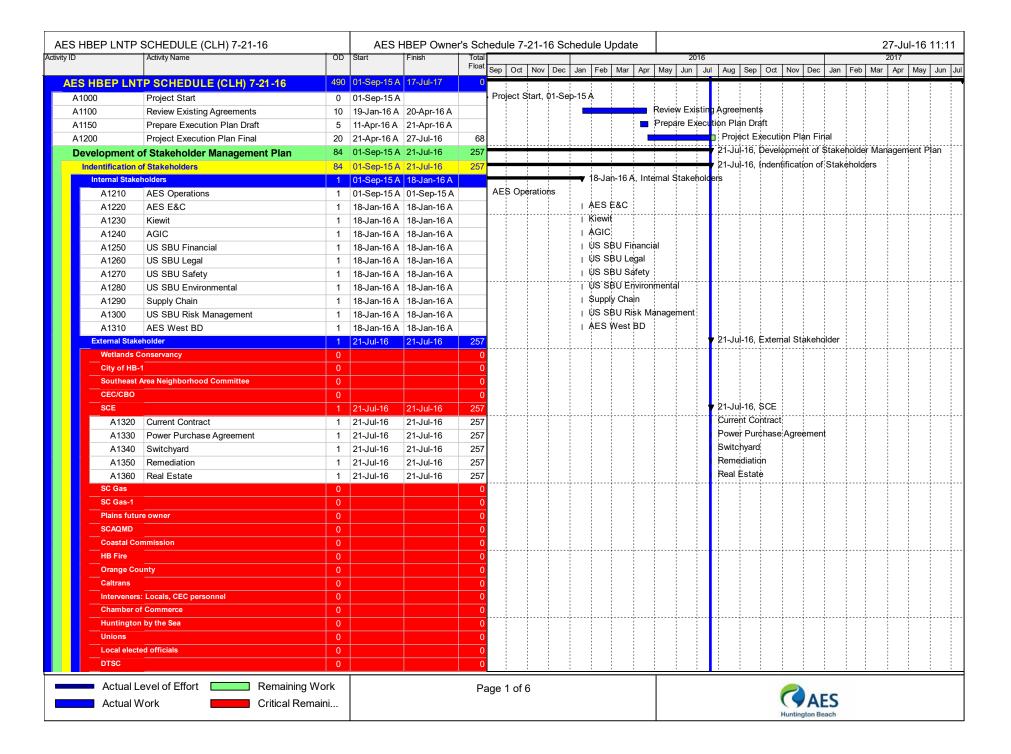
No complaints, notices of violation, official warnings, or citations have been received during this reporting period or to date on this project.

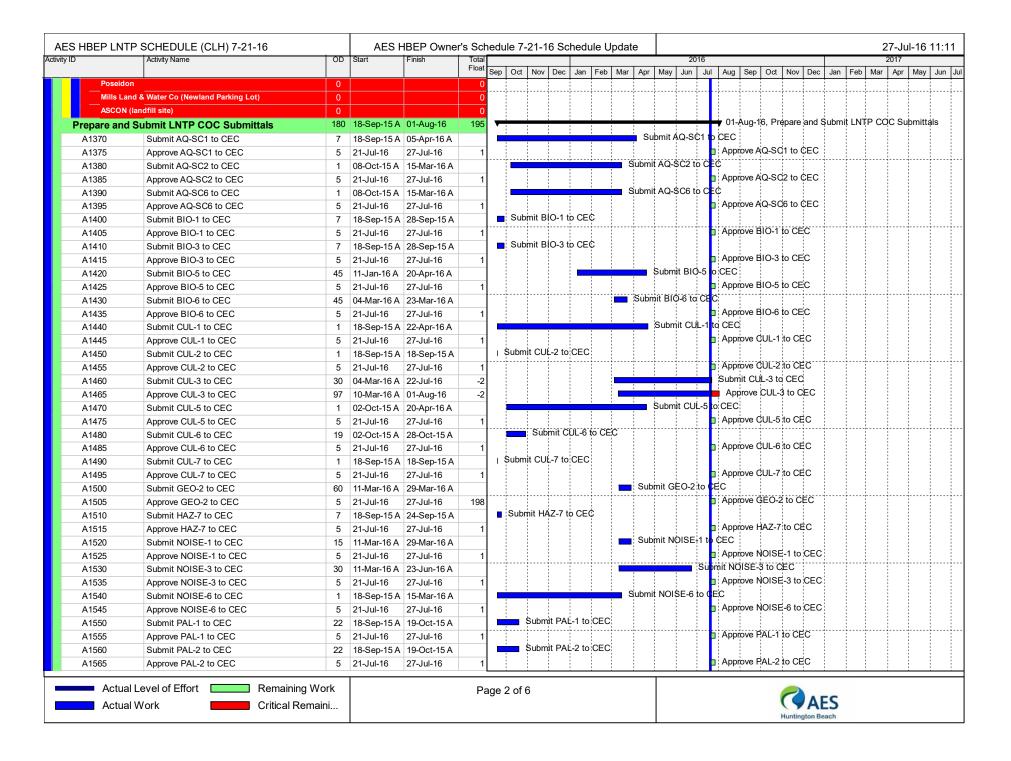
As required by Noise-1 a public notification process was established for the HBEP LNTP. The hotline was activated on June 1, 2016 and has received 15 calls through this reporting period. No complaints have been received. The Hotline received two inquiries during the month of July:

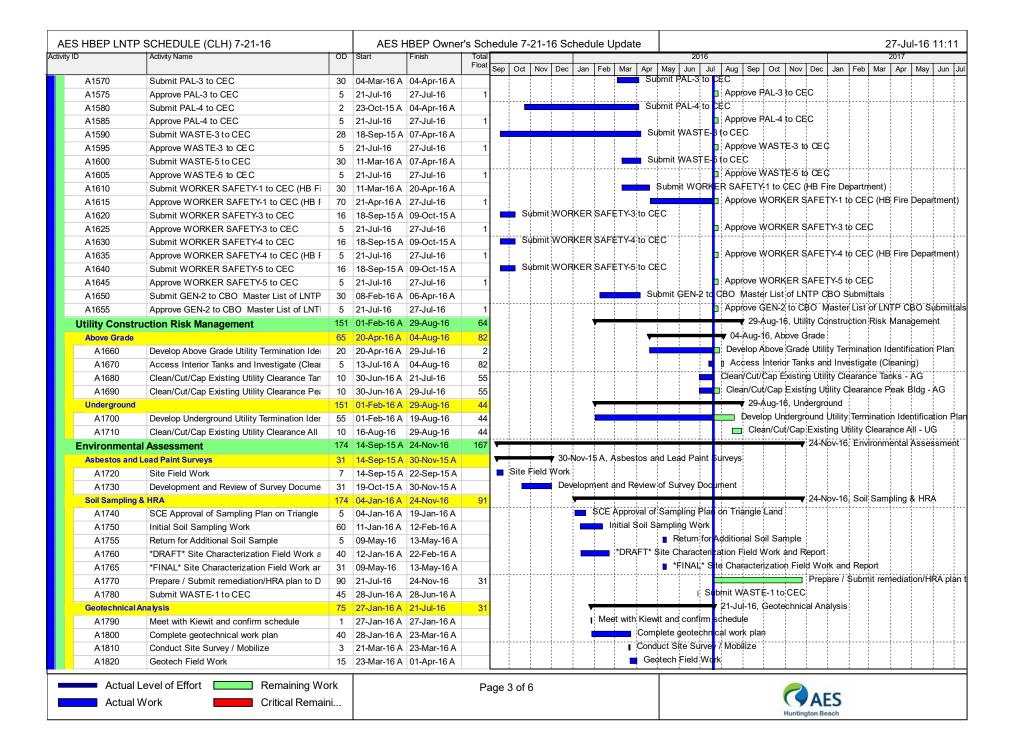
- Caller asked if project is oncorner of Magnolia and Hamilton,
- Caller did not leave a message.

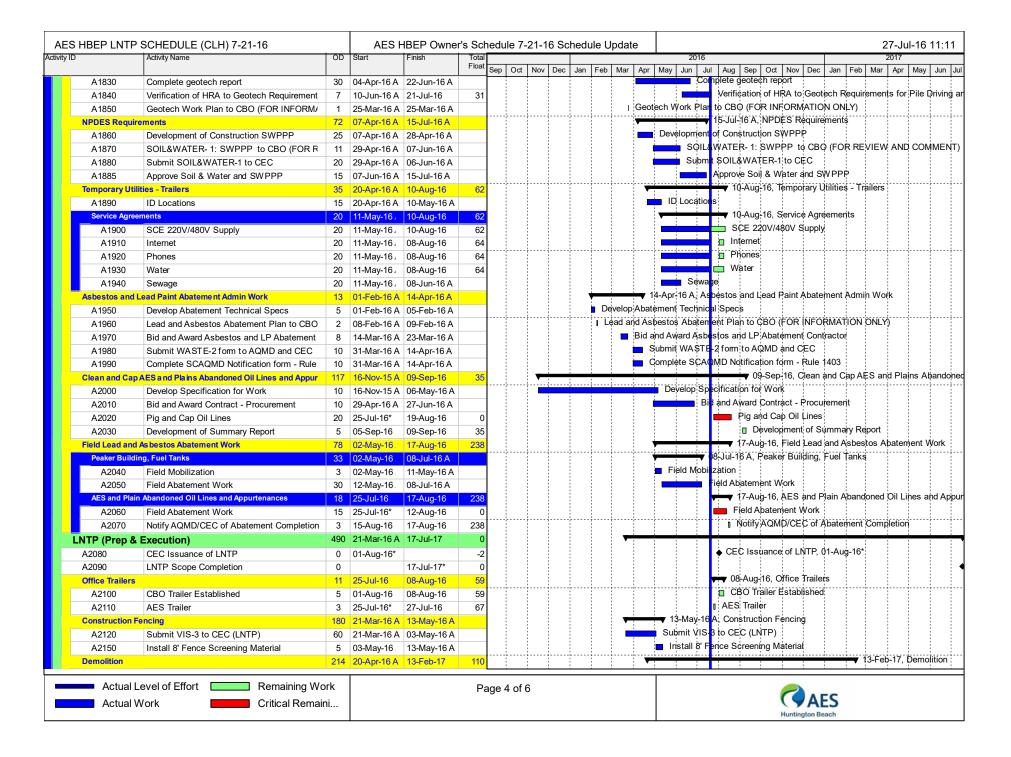
An additional inquiry was made directly to the CEC regarding noise and traffic concerns and was included in the call log for tracking purposes. The call log is included in Appendix M.

# APPENDIX A CONSTRUCTION SCHEDULE









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	A2230	Demo Abandoned Oil Lines	30	20-Sep-16	31-Oct-16	34	1	1														De	mo i	Abar	ndon	ed C	Jil L	ines	,		
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	A2360	DTSC review and approval	10	18-May-17	01-Jun-17	31																									<b>!</b>
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	A2392	Develop Specification for Work	10	28-Jul-16	10-Aug-16	213	3											Ė			Spe								- 1		
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Activity   D	Visual Wall (after demo) 0 0	AES HBEF	PLNTP SCHEDULE (CLH)			HBEP Ow	/ner's Sch	nedul	le 7-2	1-16 S	Sched	dule l	Jpda	ate	27-Jul-16 11:												
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Visual Wall (after demo) 0 0	Visual Wall (after demo) 0 0	Demo	Old Units	0			0	Sep	Oct	vov De	Jar	reb	Mar	Apr	iviay	Jun	Jul	Aug	Sep	Oct	No	v Dec	Jan	reb	iviar	Apr N	ay J
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## APPENDIX B KEY EVENTS

Key Event List	
Project: AES Huntington Beach Energy Project	
Docket #: 12-AFC-02	
EVENT DESCRIPTION	DATE
Certification Date	Oct 29, 2014
Petition to Amend Submitted	Sept, 17 2015
POWER PLANT SITE ACTIVITES	
Asbestos and Lead Surveys	Sept 22, 2015
Phase I - Soil Sampling - HRA	Feb 12, 2016
Site Survey and LIDAR Scan	Mar 23, 2016
GeoTech Field Work	April 1, 2016
AQMD Notification for Abatement	April 12, 2016
Phase 2 - Soil Sampling - HRA	May 10, 2016
Lead and asbestos Abetment	May 11, 2016
Vis-3 Phase 1 - Fence screening material	May 11, 2016
Demolitions Specification	Jun 6, 2016
LNTP Owners scope	Aug 11, 2016
Clean and Cap Fuel Oil Lines	Jul 25, 2016
Office Trailers (CBO and AES)	Aug 17, 2016
Mobilizations for Demo	Aug 25, 2016
Demo Oil Lines and 66KV	Sept 14, 2016
Demo Fuel Oil Tank	Oct 16, 2016
Demo Peaker Building	Oct 26, 2016
Demo Fuel oil Tank Final	Nov 16, 2016
Site Remediation (If required)	Mar 10, 2017
Removal of Berms	Apr 21, 2017
Issue of NTP for Construction	June 1, 2017

## APPENDIX C CEC COMPLIANCE MATRIX

Conditions of Certification	Title	Lead Response Party	Lead Person	Internal Draft Date	Planned Date to CEC	Date sent to CEC, CBO, or Agency	CEC Status	Actions/Comments
AQ-SC1	Air Quality Construction Mitigation Manager (AQCMM)	AES				4/1/2016	Approved	9/28/2015. Submitted with Keith McGregor and Michael Hughes resume for CEC approval 4/1/16. Approved 4/5/16
AQ-SC2	Air Quality Construction Mitigation Plan (AQCMP)	CH2MHill				10/8/2015	Approved	Review status with CEC on next call. AES to lead. 3/15/16
AQ-SC6	Construction Particulate Matter Mitigation Plan	CH2MHill				6/28/2016	Approved	Submitted to CEC for approval 6/28/16. Same submittal re-submitted on 7/5/16. Approved 7/12/16.
BIO-1	Appointment and Qualifications of Designated Biologist	CH2MHill				9/18/2015	Approved	9/25/2015
BIO-3	Appointment and Qualifications of Biological Monitor	CH2MHill				9/18/2015	Approved	9/25/2015
BIO-5	Biological Resources Worker Environmental Awareness Program (WEAP)	СН2МНііі				10/2/2015	Approved	Combined CUL, BIO, and Paleo. CEC requested translation plan. No translations are currently planned or necessary. CH2M Hill currently responding to 10/12/15 CEC email. Based on 10/22/15 conversation with CEC CPM Eric Veerkamp, he will go back to his staff to determine if this is necessary (10/26/15). Pending AES Review. AES has decided not to provide a Spanish translation. CEC provided comments on 11/20/15. CEC comments provided the CH2M on 1/27/16. CH2M to provide price for voice over in spanish. Once Cul-1 is approved, request approval for WEAP. CH2M to send WEAP for review by 2/10/16. CH2M submitted WEAP to AES 2-10-16. AES provided comments 2- 12-15. CH2M addressing comments and will return final to AES by COB 2-15-16. Submitted to CEC for approval 3/9/16. CEC provided comments on 3/16/1, CH2M addressing comments. CH2M submitted to AES for review 4/15/16. Re-submitted to CEC for approval 4/20/16. CEC aaproval 5/3/16.
BIO-6	Biological Resources Mitigation Implementation and Monitoring Plan (BRMIMP)	CH2MHill				3/9/2016	Approved	CH2M Hill to provide AES data request and internal AES review draft date in Monday, 10/5 call. Still pending 10/5. Draft document submitted by CH2MHill 10/30/15. For AES review and comment. AES and Talperion provided comment on 12/03/15. CH2M Hill currently addressing comments. CH2M to send for review by 2/10/16. AES to provide comments to figures by 2/9/16. AES to review and provide comments by 2/19/16. CH2M submitted BRMIMP to AES 2-10-16. AES will review and provide comments mid-week (2-17-16). CH2M submitted final draft on 2/26/16. Submitted to CEC for approval 3/9/16. Approved 3/23/16
BIO-8	Pre-Construction Nest Surveys and Impact Minimization Measures for Breeding Birds	CH2MHill					Approved	Submitted Melissa Fowler's resume to USDFWS and CDFW 4/8/16. CDFW submitted comemnts 4/8/16, CH2M addressing comments and will provide fro review by 4/11/16. Re-submitted to USFWS 4/12/16. USFWS provided comments back 4/12/16, CH2M adressing comments. Provided comments to USFWS and added Gary Santolo's resume to accompny Melissa Fowler on 4/14/16. USFWS provided comments back 4/15/16, CH2M addressing comments. Assessments and survery are put on hold until mid-June. First survey was conducted on 6/6/2016, notification was sent to CEC on 6/7/16. Approved 6/9/16.
COM-4	Pre-Construction Matrix and Tasks Prior to Start of Construction	CH2MHill					Approved	
CUL-1	Appointment and Qualifications of Cultural Resources Specialist (CRS)	СН2МНіІІ				9/18/2015	Approved	CEC staff requested that CH2M Hill revise the resumes to reflect the qualifications defined by the COC and DOI standard. Mason tasked on 10/20 for revise resumes per CEC memo. CH2MHill submitted amended documents on 10/28/15. Resumes resubmitted to CEC on 12/9/15. Review status with CEC on next call. CEC provided comments on 4/4/16. CH2M addressing comments and provde updated resumes 4/18/16. CH2M provided resumes to AES for review 4/18/16. CH2M provided to AES for review 4/20/16, AES provided comments back, CH2M to submit for review 4/20/16. Re-submitted to CEC for approval 4/22/16. CEC provided comments 5/23/16, CH2M addressing comments, provide to AES by 6/7/16. Repsonded to CEC's comments 6/9/2016 regarding Natalie Lawson's resume, waiting on approval. CH2M addressing comments from CEC based on concall with CEC Cultural Staff on 6/13/16. Responded to CEC's comments on 6/16/16, waiting on approval. Approved 6/17/2016.
CUL-2	Information to be Provided to CRS	CH2MHill				9/18/2015	Approved	Tied to CUL-1. Status to be updated after CUL-1 review with CEC. Review status with CEC on next call. Walting on approval of CUL-1, once CUL-1 is approved all other CUL COC's should fall into place. Approved 6/30/16.

Color Code Key

Not submitted to CEC.

Submitted to CEC; pending approval.

HBEP response to CEC questions pending.

CEC approved.

Conditions of Certification	Title	Lead Response Party	Lead Person	Internal Draft Date	Planned Date to CEC	Date sent to CEC, CBO, or Agency	CEC Status	Actions/Comments
CUL-3	Cultural Resources Mitigation and Monitoring Plan (CRMMP)	СН2МНіІІ				3/9/2016	CEC Review	CH2M Hill to provide AES data request and internal AES review draft date in Monday, 10/5 call. Still pending 10/5. Draft submitted by CH2MHill on 10/30/15. For AES review and comment. AES and Talperion submitted comments to BRMIMP on 12/3/15. Review of this document was halted due to similarity with BRMIMP comments. CH2M Hill is currently addressing comments to BRMIMP (which should also address this document). CH2M to send WEAP for review by 2/10/16. AES to review and provide comments by 2/19/16. CH2M submitted CRMMP to AES 2-10-16. AES will review and provide comments mid-weel (2/17/16). AES to provide comments by 2/24/16. CH2M sybmitted final draft on 2/25/16. Submitted to CEC for approval 3/9/16. CEC provided comments 4/11/16. CH2M addressing comments and to submit for review 4/19/16. AES reviewing document, will provide to CH2M by COB 6/6/16. Re-submitted to CEC for approval 6/9/2016. CEC provided comments on 7/19/16. Re-submitted to CEC for approval 7/21/16. CEC provided comments on 7/19/16. Re-submitted to CEC for approval 7/21/16. CEC provided comments on 8/1/16. Re-submitted to CEC for approval 8/1/16. Received approval from Gabriel Roark on 8/1/16. Approved 8/3/16.
CUL-5	Cultural Resources Worker Environmental Awareness Program (WEAP)	CH2MHill				10/2/2015	Approved	Combined CUL, BIO, and Paleo. See BIO-6 status above. CEC provided comments on 4/8/16. CHZM addressing comments and will submitt for review by 4/12/16. CH2M submitted to AES for review 4/15/16. RE-submitted to CEC for approval 4/20/16. CEC provided comments on 6/14/16, CHZM addressing comments, revised documents to AES by COB 6/20/2016. Re-submitted to CEC for approval 6/27/16. Approved 6/28/16.
CUL-6	Undiscovered Cultural Resources	AES				10/2/2015	Approved	Received electronic form from CEC. Submitted. CEC advise this is complete.
CUL-7	Power of CRS	AES				9/18/2015	Approved	Tied to CUL-1. Review status with CEC. Waiting on approval of CUL-1, once CUL-1 is approved all other CUL COC's should fall into place. Approved 6/30/16.
GEO-2	Compliance with City of Huntington Beach Municipal Code Section 17.04.085	AES					Data/Questions	CEC provided comments on 6/16/2016. AES addressing comments. AES responsed to CEC's comments 6/23/16. CEC provided comments on 7/7/16. AES addressed comments to CEC on 7/14/16. AES sent reports to HBFD on 7/20/16.
HAZ-7	Hazardous Materials	AES				9/18/2015	Approved	9/24/2015
NOISE-1	Public Notification Process	AES					CEC Review	CH2M Hill sent property owner's notification list. AES to establish 800 # for complaints and AES procedure for monitoring and responding to complaints. CH2MHill can do this but needs 7-8 working days prior to start date to get information to get together for mailing. Powell to work with Stephen to determine date (AES to Complete). Submitted to CEC for approval 5/31/16. Approved 7/13/16.
NOISE-3	Employee Noise Control Program	AES					CEC Review	AES to review existing worker safety noise control and prepare submittal spectific to LNTP as appropriate. AES to Complete. Submitted to CEC for approval 6/27/16. Approved 7/13/16.
NOISE-6	Construction Restrictions	AES				9/18/2015	Approved	Acknowledgement of hours restriction sent. Noise that draws a legitimate complaint (for the definition of "legitimate complaint", see the footnote in Condition of Certification NOISE-2). Talperion to check status with CEC. 3/15/16
PAL-1	Appointment and Qualifications of Paleontological Resource Specialist (PRS)	CH2MHill				9/18/2015	Approved	10/19/2015
PAL-2	Documents Provided to the PRS	CH2MHill				9/18/2015	Approved	10/19/2015
PAL-3	Paleontological Resources Monitoring and Mitigation Plan (PRMMP)	CH2MHill				3/9/2016	Approved	CH2M Hill to provide AES data request and internal AES review draft date in Monday, 10/5 call. Still pending 10/5. Submitted by CH2MHill on 10/30/15. For AES review and comment. Review of this document was halted due to similarity with BRMIMP comments. CH2M Hill is currently addressing comments to BRMIMP (which should also address this document). CH2M to send for review by 2/10/16. AES to review and provide comments by 2/19/16. CH2M submitted PRMMP to AES 2-10-16. AES will review and provide comments mid-week (2-17-16). CH2M submitted final draft on 2/25/16. Submitted to CEC for approval 3/9/16. Approved 4/4/16
PAL-4	Preparation of Worker Environmental Awareness Program (WEAP)	CH2MHill				10/2/2015	Approved	10/26/2015. Approved 4/4/16 based on WEAP submital from 3/9/16.

Conditions of Certification	Title	Lead Response Party	Lead Person	Internal Draft Date	Planned Date to CEC	Date sent to CEC, CBO, or Agency	CEC Status	Actions/Comments
SOIL&WATER-1	NPDES Construction Permit Requirements	AES					Approved	No submittals identified and 9/11 meeting, but CBO identified as requirement. Current LNTP plan will leave operational SWPPP in place through 2015-16 season. Submitted to CEC for approval 6/7/2016. Approved 7/13/2016.
SOIL&WATER-2	Hydrostatic Water Discharge Permit Requirements	AES	Powell					No Hydrostatic water discharge expected during LNTP.
VIS-3	Long-Term Construction Screening, Landscape Protection, and Site Restoration Plan - Project Demolition, Construction, and Commissioning	AES				4/1/2016	Approved	CH2M Hill preparing draft plan. Team agreed this is focused and limited to LNTP scope and revised plan is underway. Once HBEP defines LNTP plan & scope, we will consult with CEC. Must review proposed plan and fence construction with O'Kame once schedule is complete. Robert to create a draft narrative includes photos. Tracy to layout base map. CH2MHill submitted draft document on 1/18/16. AES, Talperion, and CH2M Hill to schedule a meeting the week of Feb 1st to discuss. CH2M to submit internal draft to AES by 2/12/16. AES to review and provide comments by 2/19/16. AES to schedule meeting with Jenifer and CH2M for Wed 2/24/16. CH2M to provide draft for AES review 3/7/16. CH2M submitted 2 version of draft to AES for review 3/11/16. AES to provide comments to CH2M today 3/14/16. AES to send poposal to CEC 3/28/16. Submitted to CEC for approval 4/12/16. CEC provided comments from CEC 4/7/16 via con call. Resubmitted for approval 4/12/16. CEC provided comments 4/22/16. CH2M addressing comments, to provide for review by 4/27/16. Re-submittd to CEC for approval 4/27/16. CEC approval 5/3/16
WASTE-1	Waste Management	AES				6/28/2016	Approved	Pending assessment results. Prior to geotech work. Establish due date after assessment. AES to provide. Submitted to CEC for approval 6/28/16. Approved 7/13/2016.
WASTE-2	Waste Management	AES					Approved	Asbestos Demolition Notification Form. Pending contractor selection and completion of AQMD notification form. AES to provide. Submitted to CEC on 4/19/16, no comment required. Approved 5/23/16
WASTE-3	Registered Engineer or Geologist Resume	CH2MHill				4/1/2016	Approved	10/27/2015. Submitted with Sally Drinkard's resume for CEC approval 4/1/16. Approved 4/7/16
WASTE-5	Waste Management	AES				3/25/2016	Approved	CH2M Hill draft Waste Management plan underway. Plan will address the entire project. Submittal by CH2MHill on 10/28/15. For AES review and comment. AES to resubmit comments. CH2M to review comments from AES and submit by 2/10/16. AES to review and provide comments by 2/24/16. AES to review and provide comments by 2/24/16. AES to review and provide comments by 3/7/16. Submitted to CEC for approval 3/25/16. Approved 4/7/16
WORKER SAFETY-1	Project Construction Safety and Health Program	AES				4/1/2016	Approved	WEAP - Prepared by Ron Butcher for AES; incorporate operating site program. Submittal pending AES signature. AES submittal to CEC anticipated 11/2/15. AES evaluating comments from Fire Department. AES to hear back from Fire Department by 2/26/16. Submitted to CEC for approval 4/1/16. CEC provided comments 4/12/16, AES addressing comments. RE-submitted to CEC for approval 4/20/16. CEC provided comments 4/27/16, AES addressing comments. Re-submitted for CEC approval 5/6/16. CEC approval 5/9/16. Submitted Demo Site Specific H&S Plan for CEC approval 7/27/16. Approved 8/4/16.
WORKER SAFETY-3	Construction Safety Supervisor	AES				9/18/2015	Approved	10/5/2015
WORKER SAFETY-4	Safety Monitor						Approved	10/6/2015
WORKER SAFETY-5	Automatic External Defibrillator	AES				9/18/2015	Approved	10/6/2015

# APPENDIX D CBO DOCUMENTATION

#### HUNTINGTON BEACH ENERGY PROJECT COMPLIANCE MATRIX BASED ON CEC 12-AFC-02

					Color code key:	Demolition Item	Construction	Closeout Item	CEC or Agency	CEC or Agency
Critical	Cond. #	Sort Code	Submittal	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Date Due to CEC CPM	Targeted Internal Finish Date	Date sent to CEC, CBO or agency	CBO Status
	CIVIL-01	CONSTRUC TION		The project owner shall submit to the CBO for review and approval the following:  1. Design of the proposed drainage structures and the grading plan.  2. An erosion and sedimentation control plan.  3. A construction storm water pollution prevention plan (SWPPP).  4. Related calculations and specifications, signed and stamped by the responsible civil engineer.  5. Soils, geotechnical, or foundation investigations reports required by the 2013 CBC.	At least 15 days (or project owner- and CBO-approved alternative time frame) prior to the start of site grading the project owner shall submit the documents described above to the CBO for design review and approval. In the next monthly compliance report following the CBO's approval, the project owner shall submit a written statement certifying that the documents have been approved by the CBO.	At least 15 days (or project owner- and CBO- approved alternative time frame) prior to the start of site grading.				
	CIVIL-02	CONSTRUC TION		The resident engineer shall, if appropriate, stop all earthwork and construction in the affected areas when the responsible soils engineer, geotechnical engineer, or the civil engineer experienced and knowledgealthe in the practice of soils engineering identifies unforescen adverse soil or geologie conditions. The project owner shall submit modified plans, specifications, and calculations to the CBO based on these new conditions. The project owner shall obtain approval from the CBO before resuming earthwork and construction in the affected area.	The project owner shall notify the CPM within 24 hours, when carthwork and construction is subpegled as a result of unforescen adverse geologic/soil conditions. Within 24 hours of the CBO's approval to resume carthwork and construction in the affected areas, the project owner shall provide to the CPM a copy of the CBO's approval.	Within 24 hours of construction halt due to geologic conditions.				
	CIVIL-03	CONSTRUC TION		The project owner shall perform inspections in accordance with the 2013 CBC. All plant site- grading operations, for which a grading permit is required, shall be subject to inspection by the CBO.  If, in the course of inspection, it is discovered that the work is not being performed in accordance with the approved plans, the discrepancies shall be reported immediately to the resident engineer, the CBO, and the CPM. The project owner shall prepare a written report, with copies to the CBO and the CPM, detailing all discrepancies, non-compliance items, and the proposed corrective action.	Within five days of the discovery of any discrepancies, the resident engineer shall transmit to the CBO and the CPM a non- conformance report (NCR), and the proposed corrective action for review and approval. Within five days of resolution of the NCR, the project owner shall submit the details of the corrective action to the CBO and the CPM. A list of NCRs, for the reporting month, shall also be included in the following monthly compliance report.	Within 5 days of discovery of any discrepancies.				
	CIV-04	CLOSE OUT		After completion of finished grading and crosion and sedimentation control and drainage work, the project owner shall obtain the CRO's approval of the final grading plans (nedding final changes) for the crosion and sedimentation control work. The civil engineer shall state that the work within his/her area of responsibility was done in accordance with the final approved plans.	Within 30 days (or project owner- and CBO-approved alternative time frame) of the completion of the ensoine and seathment control mitigation and drainage work, the project owner shall submit to the CBO, for review and approval, the final grading plans, foculding final changes) and the responsible civil engineer's signed statement that the installation of the facilities and alt ensoine control measures were completed in accordance with the final approved combined grading plans, and that the facilities are adequate for their intended purposes. The project owner shall submit a copy of the CBO's approval to the CPM in the next monthly compliance report.	Within 30 days (or project owner- and CBO- approved alternative time frame) of the completion of the crossion and sediment control mitigation and drainage work.				
	ELEC-01	DEMO		Prior to the start of any increment of electrical construction for all electrical equipment and systems 110 Volto in the place (see a representative list, below) he project owner shall submit, for CRO design review and approval, the proposed final design, specifications, and calculations. Upon approval, the above listed plans, together with design changes and design changes notices, shall remain on the site or at another accessible location for the operating life of the project. The project owner shall request that the CRO inspect the installation to ensure compliance with the requirements of applicable LORs. All transmission facilities (lines, swichyards, switching stations, and substations) are handled in conditions of certification in the TRANSMISSION SYSTEM ENGINEERING section of this document.	At least 30 days (or project owner- and CBO-approved alternative time frame) prior to the start of each increment of electrical construction, the project owner shall submit to the CBO for design review and approval the above listed documents. The project owner shall include in this submittal a copy of the signed and stamped statement from the responsible electrical engineer attesting compliance with the applicable I/ORS, and shall send the CPM a copy of the transmittal letter in the next monthly compliance report.	At least 30 days (or project owner- and CBO- approved alternative time frame) prior to the start of each increment of electrical construction.				
			Temporary Power for Trailers					8/8/2016		
			Temporary Power for Demolition Activities					8/19/2016		
•	GEN-01	CLOSE OUT		The project owner shall design, construct, and inspect the project in accordance with this Decision and the 2013 California Building Standards Code (CISC), also known as Title 244, Galifornia Code of Regulations, which encompasses the California Building Code (CISC), California Building Standards Administrative Code, California Electrical Code, California Instructional Code, California Plumbing Code, California Energy Code, California Fire Code, California Code for Building Standards Code, California Energy Code, California Fire Code, California Code for Standards Code, and all other applicable engineering LORS in effect at the time initial design plans are submitted to the CGP for review and approval (the CBSC in effect is the edition that has been adopted by the California Building Standards Commission and published at least 180 days previously).	Within 30 days following receipt of the certificate of occupancy, the project owner shall submit to the CPM a statement of verification, signed by the responsible design engineer, attesting that all designs, construction, installation, and inspection requirements of the applicable LORS and the Energy Commission's decision have been met in the area of facility design. The project owner shall provide the CPM a copy of the certificate of occupancy within 30 days of receipt from the CBO.	With 30 days after receipt of Certificate of Occupancy				
	GEN-02	DEMO		Before submitting the initial engineering designs for CBO review, the project owner shall furnish the CPM and the CBO with a schedule of facility design submittals, and master drawings and master specifications list. The master drawings and master specifications list shall contain a list of proposed submittal packages of designs, calculations, and specifications for major structures, systems, and equipment, including the architectural visual enhancement specified in the VISUAL RESOURCES section. Major structures, systems, and equipment are structures and their associated components or equipment that are necessary for power production, costly or time consuming to repair or replace, are used for the storage, containment, or handling of hazardous or toxic materials, or could become potential health and safety hazards if not constructed according to applicable engineering LORS. The schedule shall contain the date of each submittal to the CBO.	At least 60 days (or a project owner- and CBO-approved alternative time frame) prior to the start of rough grading, the project owner shall submit to the CBO and to the CP2. Major structures and equipment shall be added to or deleted from the list only with CPM approval. The project owner shall provide schedule updates in the monthly compliance report. M the schedule, and the master drawings and master specifications list of documents to be submitted to the CBO for review and approval. These documents shall be the pertinent design documents for the major structures, systems, equipment, and the architectural enhancement features defined above in Condition of Certification GEN-2.	At least 60 days (or a project owner- and CBO- approved alternative time frame) prior to the start of rough grading.				

Critical	Cond. # Sort Code		Submittal	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Date Due to CEC CPM	Targeted Internal Finish Date	Date sent to CEC, CBO or agency	CBO Status
	GEN-03	DEMO	The project owner shall make payments to the GBO for design review, plan checks construction inspections, based upon a reasonable fee schedule to be quotiented by project owner and the CBO. These fees may be consistent with the fees lated in the adjusted for inflation and other appropriate adjustments; may be based on the value facilities reviewed; may be based on hourly rates; or may be otherwise agreed upon owner and the CBO.		The project owner shall make the required payments to the CBO in accordance with the agreement between the project owner and the CBO.	The project owner shall send a copy of the CBO's receipt of payment to the CPM in the next monthly compliance report indicating that applicable fees have been paid.			aguney	
GEN-04		DEMO		Prior to the start of rough grading, the project owner shall assign a California-registered architect, or a structural or civil engineer, as the resident engineer (RE) in change of the project.	At least 30 days (or project owner- and CBO-approved alternative time frame) prior to the start of rough grading, the project owner shall submit to the CBO for review and approval, the resume and registration number of the RE and any other delegated engineers assigned to the project. The project owner shall notify the CPM of the CBO's approvals of the RE and other delegated engineers within five days of the approval.	At least 30 days prior to the start of rough grading.				
	GEN-05	CONSTRUC TION	following California registered engineers to the project: a civil engineer, a soils, geotechnical, or civil time frame) per engineer experienced and knowledgeable in the practice of soils engineering and an engineering geologist.		At least 30 days (or project owner- and CBO-approved alternative time frame) prior to the start of rough grading, the project owner shall submit to the CBO for review and approval, resumes and registration numbers of the responsible civil engineer, soils (geotechnical) engineer and engineering geologist assigned to the project.	At least 30 days prior to the start of rough grading.				
	GEN-06	CONSTRUC TION		Prior to the start of an activity requiring special inspection, including prefabricated assemblies, the project owner shall assign to the project, qualified and certified special inspector(s) who shall be responsible for the special inspections required by the 2013 CBC.	At least 15 days (or project owner- and CBO-approved alternative time frame) prior to the start of an activity requiring special inspection, the project owner shall submit to the CBO for review and approval, with a copy to the CPM, the name(s) and qualifications of the certified weld inspector(s), or other certified special inspector(s) assigned to the project to perform one or more of the duties set forth above.	At least 15 days (or project owner- and CBO- approved alternative time frame) prior to the start of an activity requiring special inspection.				
	GEN-07	CONSTRUC TION		If any discrepancy in design and/or construction is discovered in any engineering work that has undergone CBO design review and approval, the project owner shall document the discrepancy and recommend required corrective actions. The discrepancy documentation shall be submitted to the CBO for review and approval. The discrepancy documentation shall reference this condition of certification and, if appropriate, applicable sections of the CBC and/or other LORS.	The project owner shall transmit a copy of the CBO's approval of any corrective action taken to resolve a discrepancy to the CPM in the next monthly compliance report. I any corrective action is disapproved, the project owner shall advise the CPM, within five days, of the reason for disapproval and the revised corrective action to obtain CBO's approval.	The project owner shall transmit a copy of the CBO's approval or disapproval solve a discrepancy to the CPM within 15 days. If disapproved, the project owner shall advise the CPM, within five days, the reason for disapproval, and the revised corrective action to obtain CBO's approval.				
	GEN-08	CLOSE OUT		The project owner shall obtain the CBO's final approval of all completed work that has undergone CBO design review and approval. The project owner shall request the CBO to inspect the completed structure and review the submitted documents. The project owner shall notify the CPM after obtaining the CBO's final approval. The project owner shall retain one set of approved engineering plans, specifications, and calculations (including all approved changes) at the project site or at another accessible location during the operating life of the project. Electronic copies of the approved plans, specifications, calculations, and marked-up as-builts shall be provided to the CBO for retention by the CPM.	Within 15 days of the completion of any work, the project owner shall submit to the CBO, with a copy to the CPM, in the next monthly compliance report, (a) a written notice that the completed work is ready for final inspection, and (b) a signed statement that the work conforms to the final approved plans. After storing the final approved engineering plans, specifications, and calculations described above, the project owner shall submit to the CPM a letter stating both that the above documents have been stored and the storage location of those documents.	CPM. The project owner shall transmit a copy of the CBO's approval or disapproval of any corrective				
	GEO-01	CONSTRUC TION		A Soils Engineering Report as required by Section 1803 of the California Building Code (CBC 2013), shall specifically include laboratory test data, associated gotechnical engineering analyses, and a thorough discussion of Sestimicity, Equification, dynamic compaction; compressible soils; corrosive soils, and tsumain. In accordance with CBC 2013, the report should also include recommendations for ground improvement anal/or foundation systems necessary to mitigate these potential geologies hearards, if present. The project owner shall conduct a geotechnical investigation that identifies expected devatering volumes and the spatial extent of drawdown effects of that dewatering. If the investigation shows that dewatering is Richy to affect nearby weelnads or environmentally sensitive habitat areas, mitigation measures shall be incorporated into the final design plans required pursuant to Condition of Certification GEN-42.	The project owner shall include in the application for a grading permit a copy of the Soils Engineering Report which addresses the protential for storing esismic shaking laquefaction; dynamic compaction; settlement due to compressible soils; corrosive soils and tunami, and a summary of how the results of the analyses were incorporated into the project foundation and grading plan design for review and comment by the Chaff Budling Official (CRO). A copy of the Soils Engineering Report, application for grading permit and any comments by the CBO are to be provided to the CPM at least 30 days prior to grading.	action taken to resolve a discrepancy to the CPM within 15 days. If disapproved, the project owner shall				
•	GEO-02	CONSTRUC TION		The project owner shall comply with the requirements of Huntington Beach Municipal Code Section 17.04.085 to ensure the existing and previously identified abandoned gas well on the site, and any additional wells that may be identified during grading and construction, are appropriately mitigated and made safe. The project owner shall consult with the Fire Chief to determine whether any of the following requirements of the municipal code apply, and shall submit the recommendations of the Fire Chief to the CPM for review and approval.	The project owner shall include in the application for a Methane District Bulking Permit a copy of the construction project Site Plan Review approved by the California Department of Conservation Division of Oil, Gas and Geothermal Resources (DOGGR) that is on file with the Huntington Beach Fire Department PetroChem section. A copy of the site plan review, application for the Methane District Bulking Permit and any comments by Huntington Beach Fire Chief are to be provided to the CPM at least 30 days prior to initiation of grading.	advise the CPM, within five days, the reason for disapproval, and the revised corrective action to obtain				

Critical	Cond. #	Sort Code	Submittal	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe Date Due to CEC CPM	Targeted Internal Finish Date  Date sent to CEC, CBO or agency	CBO Status
	HAZ-07	DEMO		Phor to commencing construction, a site-specific Construction Site Security Plan for the construction phase shall be prepared and made available to the CPM for review and approval. The Construction Security Plan shall include the following:  1. perimeter security consisting of fencing enclosing the construction area.  2. security guants.  3. site access control consisting of a check- in procedure or tag system for construction personnel and visitors.  4. written standard procedures for employees, contractors and vendors when encountering suspicious objects or packages on site or off site.  5. protocol for contacting law enforcement and the CPM in the event of suspicious activity or emergency.  6. evacuation procedures	At least thirty (30) days prior to commencing construction, the project owner shall notify the CPM that a site-specific Construction Security Plan is available for review and approval.	CBO's approval.		
			Construction Site Security Plan				8/12/2016	
·	NOISE-06	DEMO		Heavy equipment operation and noisy6 construction work relating to any project features, including plue driving, shall be restricted to the times delineated below. Mondays through Saturdays: 7:00 a.m. to 8:00 p.m. Sundays and Federal Holidays: Construction not allowed.  Limited construction activities may be performed outside of the above hours, with CPM approval as set forth below. Hall trucks and other engine-powered equipment shall be equipped with adequate mufflers and other state-required noise attenuation devices. Haul trucks shall be operated in accordance with posted speed limits. Truck engine exhaust brake use (fake braking) shall be limited to emergencies.	Prior to ground disturbance, the project owner shall transmit to the CPM a statement acknowledging that the above restrictions will be observed throughout the construction of the project.	Prior to ground disturbance.		
			Letter of Acknowledgement				6/27/2016	Completed
	S&W-01	DEMO		The project owner shall manage stormwater pollution from HBEP construction activities by fulfilling the requirements contained in State Water Resources Control Board's National Pollutant Discharge Elimination System (PIDPES) General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Order No. 2009-0009- DWQ, NPDES No. CAS000002) and all subsequent revisions and amendments. The project owner shall develop and implement a construction Storm Water Pollution Prevention Plan (SWPPP) for the construction of the HBEP project.	Thirty (30) days prior to site mobilization of HBEP construction activities, the project owner shall submit the construction SWPPP to the CBO and CPM for review and the SWRCB for review and timely comment. A copy of the approved construction SWPPP shall be kept accessible onsite at all times. Within 10 days of its mailing or receipt, the project owner shall submit to the CPM any correspondence between the project owner and the Santa Ana Regional Water Quality Control Board about the general NPDES permit for discharge of stormwater associated with construction and land disturbance activities. This information shall include a copy of the notice of intent and the notice of termination submitted by the project owner to the SWRCB.	Thirty (30) days prior to site mobilization of HBEP construction activities.		
			Construction SWPPP				6/10/2016 1st submittal 7/20/2016	CBO Review
							8/8/2016	
·	S&W-03	DEMO		Pior to any goundwater dewatering, the project owner shall submit a dewatering plan to the CPM for review and approval. The dewatering plan shall include maximum daily and average daily pumping rates, and total volume expected to be pumped during dewatering, as well as the dates expected to be used for dewatering. The plan shall also include estimates of drawdown that may occur at the adjacent marsh land, and identify potential mitigation, as needed, as well as describe under what circumstances such mitigation would be implemented.	At least sixty (60) days prior to dewatering, the project owner shall submit a dewatering plan to the CPM for review and approval. The project owner shall provide a report on the dewatering daily average and maximum rate and total daily volumes in each monthly compliance report when dewatering occurs. At least 30 days prior to any planned dewatering water discharge, the project owner shall submit a RWD to the RWQCB to obtain the appropriate waiver or permit. The project owner shall submit a copy of any correspondence between the project owner and the RWQCB regarding the waiver or permit and all related reports to the CPM within 10 days of correspondence receipt or submittal.	At least sixty (60) days prior to dewatering.		
•	S&W-04	DEMO		Prior to mobilization for construction, the project owner shall obtain a National Pollutant Discharge Elimination System permit for industrial waste and stommwater discharge to the Pacific Ocean. The project owner shall discharge to the same outfall currently utilized by the Huntington Reach Generating Station under the requirements of Order No. R8-2006-0011, NPDES No. CA0001163. The project owner shall provide a copy of all permit documentation sent to the Santa Ana or State Water Board to the CPM and notify the CPM in writing of any reported non-compliance.	Prior to construction mobilization, the project owner shall submit to the CPM documentation that all necessary NPDES permits were obtained from the Santa Ana or State Water Board. Thirty (30) days prior to HBEP operation, the project owner shall submit to the CPM a copy of the Industrial SWPPP.	Prior to construction mobilization.		
			NPDES Permit				6/28/2016	Completed
			Monthly Non-Compliance Report					To be included in MCR

Cond. #	Sort Code	Submittal	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Date Due to CEC CPM	Targeted Internal Finish Date	Date sent to CEC, CBO or agency	CBO Status
STRUC-01	DEMO		Pior to the start of any increment of construction, the project owner shall submit plans, calculations and other supporting documentation to the CBO for design review and acceptance for all project structures and equipment identified in the CBO-approved master drawing and master specifications list. The design plans and calculations shall include the lateral force procedures and details as well as vertical calculations. Construction of any structure or component shall not begin until the CBO has approved the lateral force procedures to be employed in designing that structure or component. The project owner shall:  1. Obtain approval from the CBO of lateral force procedures proposed for project structures.  2. Obtain approval from the CBO for the final design plans, specifications, calculations, soils reports, and applicable quality control procedures. If there are conflicting requirements, the more stringent shall govern (for example, highest loads, or lowest allowable stresses shall govern). All plans, calculations, and specifications for foundations that support structures shall be filed enoncurrently with the structure plans, calculations, and specifications.  Submit to the CBO the required number of copies of the structural plans, specifications, calculations, and other required documents of the designated major structures from to the start of on-site fabrication and installation of each structure, equipment support, or foundation.  4. Essure that the final plans, calculations, and specifications clarifications clary reflect the inclusion of approved criteria, assumptions, and methods used to develop the design. The final designs, plans, calculations and specifications shall be signed and stamped by the responsible design engineer.  5. Submit to the CBO the responsible design engineer's signed statement that the final design plans conform to applicable LORS.	At least 30 days prior to any planned dewatering water discharge, the project owner shall submit a RWD to the RWQCB to obtain the appropriate waiver or permit.	At least 60 days (or project owner-and CBO- approved alternative time frame) prior to the start of any increment of construction of any structure or component listed.				
		Structural Design of Trailers					7/13/2016	7/27/2016	CBO Review
		Demolition Work Plan					9/9/2016		
		12' Construction Fence Design					9/9/2016		
		Utility Clearance Plan					9/9/2016		
		Demolition Site Delineation Plan					9/9/2016		
VIS-1	CONSTRUC TION		Prior to submitting the moster drawings and master specifications list for the project to the Chief Building Official (CBO) and the Compliance Project Manager (CPM), the project owner shall prepare and submit a Visual Screening and Enhancement Plan for Project Structures (Plan) that includes methods and materials to visually screen and treat surfaces of publicly visible power pla structures.	drawings and master specifications list to the CBO (in accordance with the requirements of GEN-2), the project owner shall submit a					
VIS-2	CONSTRUC TION		The project owner shall prepare and implement a Perimeter Screening and On-site Landscape or Irrigation Plan (Plan) to screen views of power plant structures.	No more than 45 calendar days after submitting the master drawing and master specifications list to the KDD (in accordance with the requirements of Condition of Certification (SEN-2), the project owner shall submit the Perimeter Screening and On-site Landscape and Irrigation Plan to the CPM for review and approval.					
VIS-03	DEMO		Pior to the start of site mobilization, the project owner shall prepare and implement a Construction Secreting, I andecape Protection, and Site Restonation Plan describing methods and materials that will be used during each project phase to screen project construction and parking areas and views of the project site from areas where construction activities have the potential to be visible during a phase. The Construction Servering, Landscape Protection, and Site Restoration Plan will describe methods and materials to identify and protect essiing landscape trees and shrubs. The Construction Servering, Landscape Protection, and Site Restoration Plan will identify existing landscaped areas where plantings will be retained and where they will be permanently removed. The Construction Servering, Landscape Protection, and Site Restoration Plan will include provisions to restore areas where ground disturbance occurred during construction.	Al least 60 calendar days before the start of site mobilization, the project owner shall submit a Construction Secrening, Landscape Protection, and Site Restoration Plan to the CPM for review and approval. Simultaneously with the submission of a Construction Secreting, Landscape Protection, and Site Restoration Plan to the CPM, the project owner shall submit seven copies of a Construction Secreting, Landscape Protection, and Site Restoration Plan to the Caty of Huntington Beach Planning and Building Department for review and comment.	At least 60 calendar days before the start of site mobilization.				
VIS-04	DEMO		Consistent with applicable worker safety regulations, the project owner shall ensure that lighting of on-site construction areas, construction worker parking lots, and construction laydown areas minimizes potential adverse night lighting impacts by implementing the following measure:  1. All fixed-position lighting shall be hooked and shielded to direct light downward and toward the construction area to be illuminated to prevent illumination of the right sky and minimize light trespass (i.e., direct light extending beyond the boundaries) of the construction worker parking lots and construction sites, including any secunity-related boundaries.  2. Lighting of any tall construction equipment (e.g., scaffolding, derrick cranes, etc.) shall be directed toward areas recquiring illumination and shielded to the maximum extent practicable.  3. Task-specific lighting shall be used to the maximum extent practicable.  4. Wherever and whenever feasible, lighting shall be kept off when not in use and motion sensors shall be used to the maximum extent practicable.  5. The Compliance Project Manager (CPM) shall be notified of any construction-related lighting complaints. Complaints shall be documented using a form in the format shown in Attachment, and completed forms shall exoder solution of each complaint. A copy of each completion of complaints from shall be provided to the CPM. Records of lighting complaints shall also be kept in the compliance file at the project site.	Within 7 calendar days after the first use of fixed-position parking area and construction-related lighting for major HBEP construction milestones, the project owner shall notify the CPM that the lighting is ready for impection. Verification is to be repeated for these three construction milestones:  - Demolition of HBGS Unit 5 and east fuel oil tank and construction of Power Block 2  - Demolition of HBGS Unit 5 and 2 and construction of Buildings 33 and 34  If the CPM determines that modifications to the lighting are needed for any construction milestone, within 14 calendar days of receiving a than tonification, the project owner shall correct the lighting and notify the CPM that modifications have been completed. Within 48 hours of receiving a thighing complaint for any construction activity, the project owner shall provide a copy of the complaint report and resolution from to the CPM, including a schedule for implementing corrective measures to resolve the complaint report and resolution from to the CPM, including a schedule for implementing corrective measures to resolve the complaint. The project owner shall report any lighting complaints and document their resolution in the Monthly Compliance Report for the project, accompanied by copies of completed complaint resolution forms for that month.	Within 7 calendar days after the first use of fixed- position parking area and construction-related lighting for major HBEP construction milestones.				

Critical	Cond. #	Sort Code	Submittal	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Date Due to CEC CPM	Targeted Internal Finish Date	Date sent to CEC, CBO or agency	CBO Status
	WASTE-01	CLOSE OUT	If Needed	The project owner shall ensure that the HBEP project site is properly characterized and remediated as necessary pursuant to the corrective action plans reviewed by DTSC, the Huntington Beach Fire Department and/or the Orange County Health Care Agency. In no event shall project construction commence in areas requiring characterization and remediation until the CPM determines, with confirmation from the appropriate regulatory agency, that all necessary remediation has been accomplished.	At least 45 days prior to remediation the project owner shall submit to the CPM for approval copies of remediation documentation, such as, but not limited to, soil sample results, work plans, and agreements regarding the corrective action plan requirements and activities at the project site. Pertinent correspondence such as, but not limited to, soil sample results, work plans, agreements, and authorizations involving DTSC, the Huntington Beach Fire Department, and/or (if applicable) the Orange County Health Care Agency regarding the corrective action plan requirements and activities at the project site will be provided to the CPM within 10 days of receipt. At least 15 days prior to the start of site mobilization, the project owner shall provide to the CPM within 10 days of receipt. At least 15 days prior to the start of site mobilization, the project owner shall provide to the CPM within 10 days of receipt. At least 15 days prior to the start of site mobilization, the project owner shall provide to the CPM within 10 days of receipt. In the corrective action plan. If soil contamination not previously identified or afready included in corrective action plans, work plans or closure plans is encountered prior to or during grading the project owner shall notify the CPM and DTSC, evesite the approved work plan and submit it for concurrent CPM, Huntington Beach Fire Department, and DTSC review within 30 days after contamination is identified. Comments received within 30 days free ontamination is identified.	At least 45 days prior to remediation.  At least 15 days prior to the start of site mobilization				
v	WASTE-03	DEMO		The project owner shall provide the resume of an experienced and qualified professional engineer or professional geologist, who shall be available for consultation during site characterization (if needed), demolition, excavation, and grading activities, to the CPM for review and approval. The resume shall show experience in remedial investigation and feasibility studies.	At least 30 days prior to the start of site mobilization, the project owner shall submit the resume of the professional engineer or professional geologist to the CPM for review and approval.	At least 30 days prior to the start of site mobilization.				
			Depending on Occurrence							
·	WASTE-04	CLOSE OUT		If potentially contaminated soil is identified during site characterization, demolition, exeavation, or grading at either the proposed site or linear facilities, as evidenced by discoloration, odor, detection by handheld instruments, or other signs, the professional engineer or professional geologist shall inspect the site, determine the need for sampling to confirm the nature and extent of contamination, and provide a written report to the project owner, perspectatives of Department of Toxic Substances Control, and the CPM stating the recommended course of action.	The project owner shall submit any final reports filed by the professional engineer or professional geologist to the CPM within 5 days of their receipt. The project owner shall notify the CPM within 24 hours of any orders issued to halt construction.	The project owner shall submit any final reports filed by the professional engineer or professional geologist to the CPM within 5 days of their receipt.				
·	WORKER SAFETY-01	DEMO		The project owner shall submit to the compliance project manager (CPM)a copy of the Project Construction Safety and Health Program containing the following:  1. a Construction Personal Protective Equipment Program 2. a Construction Exposure Monitoring Program 3. a Construction Injury and Illness Prevention Program 4. a Construction Injury and Illness Prevention Program 5. a Construction Fire Prevention Plan The Personal Protective Equipment Program, the Exposure Monitoring Program, and the Injury and Illness Prevention Program with all be submitted to the CPM for review and approval concerning compliance of the program with all applicable safety orders. The Construction Emergency Action Plan and the Fire Prevention Plan shall be submitted to the Huntington Beach Fire Department for review and comment prior to submittal to the CPM for approval.	At least 30 days prior to the start of construction, the project owner shall submit to the CPM for review and approval a copy of the Project Construction Safety and Health Program. The project owner shall provide a copy of a letter to the CPM from the Huntington Beach Fire Department stating the fire department's timely comments on the Construction Fire Prevention Plan and Emergency Action Plan.	At least 30 days prior to start of construction.				
			Site-Specific Health and Safety Plan - Lead/Asbestos Abatement							Completed
			Site-Specific Health and Safety Plan - Pipline Cleaning					7/18/2016	7/27/2016	CBO Review
			Site-Specific Health and Safety Plan - Demolition					8/19/2016	7/28/2016	CBO REview

Cond. #	Sort Code	Submittal	Description of Project Owner's Responsibilities	Verification/Action/Submittal Required by Project Owner	Timeframe	Date Due to CEC CPM	Targeted Internal Finish Date	Date sent to CEC, CBO or agency	CBO Status
WORKER SAFETY-03	DEMO		The project owner shall assign a site Construction Safety Supervisor (CSS) who, by way of training and/or expectione, has knowledge of of power plant construction activities and relevant laws, ordinances, regulations, and standards, is capable of identifying workplace hazards relating to the construction activities; and has authority to take appropriate action to assure complance and mitigate hazards. The CSS shall:  1. have overall authority for coordination and implementation of all occupational safety and health practices, policies, and programs  2. assure that the safety program for the project complies with Cal/OSHA and federal regulations related to power plant projects  3. assure that all construction and commissioning workers and supervisors receive adequate safety training  4. complete accident and safety-related incident investigations and emergency response reports for injuries and inform the CPM of safetyrelated incidents  5. assure that all the plans identified in Conditions of Certification Worker Safety-1 and -2 are implemented.	At least 60 days prior to the start of site mobilization, the project owner shall submit the name and contact information for the CSS to the CPM for review and approval. The contact information of any replacement CSS shall be submitted to the CPM within one business day.	At least 00 days prior to the start of site. mobilization.				Completed
WORKER SAFETY-04	DEMO		The project owner shall, through an agreement with the Chief Building Official (CBO), obtain and pay for the services of a Safety Monitor. The services of the Safety Monitor shall be in addition to other work performed by the CBO. The Safety Monitor shall be selected by and report directly to other USO and will be responsible for verliping that the Construction Safety Supervisor, as required in Condition of Certification Worker Safety-3, implements all appropriate Cal/OSHA and Energy Commission safety requirements. The Safety Monitor shall have full access to the project site to conduct on-site (including linear facilities) safety inspections at intervals necessary to fulfill those responsibilities.	shall provide proof of its agreement to fund the Safety Monitor services to the CPM for	At least 60 days prior to the start of construction.			10/5/2015	Completed
WORKER SAFETY - 06	DEMO		The project owner shall prepare an Emergency Access Plan that shows all of the following: (1) a 26-foot wide fire lane that will provide a continuous loop around HBEP Block 1; (2) a 26-foot wide fire lane that will provide a continuous loop around HBEP Block 2; (3) a 26-foot wide fire lane from the HBEP main entrance to the continuous loop acreated plane from the HBEP main entrance to the continuous loop referenced in (1) and (2) above; and (4) a 26-foot wide fire lane from a secondary access point to the continuous loops referenced in (1) and (2) above. Both access lanes shall connect to a public street. Corners must allow for clear travel of a minimum 17-foot inter adius and 45-foot outer radius (radius must be concentric). The fire lanes shall be designed and maintained to support the imposed loads of fire apparatum (57,5000 lbs. load/1/2,000 point load) and shall be surfaced to provide all-weather driving capabilities. Fire lane signages shall be provided as per City of Huntington Beach Specification #415. The 26-foot wide fire lanes shall meet the applicable requirements of the California Fire Code, City of Huntington Beach Municipal Code Chapter 17-56 - Huntington Beach Fire Code, and the Huntington Beach Fire Department City Specifications.	At least 60 days prior to the start of construction of any structures or components listed in the CBO-approved master drawing and master specification list, or within a timeframe approved by the CPM, the project owner shall submit the Emergency Access Plan to the City Fire Department for review and timely comment, and to the CPM and CBO for review and approval.	At least 60 days prior to the start of construction.				
TRANS-6	CONSTRUC		The project owner shall install blinking obstruction marking and lighting on any construction equipment that exceeds 200 feet in height in accordance with FAA requirements.	At least 10 days prior to installation of permanent obstruction marking and lighting, the project owner shall provide the CBO and CPM proof in writing of approval by the FAA for all structure marking and lighting.					
SOCIO-2	CONSTRUC		The project owner shall pay the following one-time Development Impact Fees to the City of Huntington Beach as required by Chapter 17 of the Huntington Beach municipal code.	At least 90 days prior to the start of commercial operation, the project owner shall confer with the CEC's assigned Chief Building Official (CBO) for HBEP to calculate the applicable one-time development impact fee(s) as set forth in Chapter 17 of the Huntington Beach Municipal Code. At least 30 days prior to commercial operation, the project owner shall provide to the Compliance Project Manager (CPM) proof of payment to the city of Huntington Beach of the required Development Impact Fee(s).					

### AES Huntington Beach Energy Project (12-AFC-02C) CBO Proof of Payment (GEN-3) July 2016 Reporting Period

Vendor	Document Date	Posting Date	Net due date		Reference	Text
				local		
				currency		
NV5 INC	1/15/2016	3/9/2016	2/29/2016	-5,160.30	40668	NV5 CBO Agreement For HBES
NV5 INC	1/19/2016	1/19/2016	1/19/2016	19,100.07		
NV5 INC	2/12/2016	3/10/2016	3/28/2016	-7,239.61	41755	NV5 CBO Agreement For HBES
NV5 INC	3/9/2016	3/28/2016	4/23/2016	-8,005.92	42670	NV5 CBO Agreement For HBES
NV5 INC	3/14/2016	3/14/2016	3/14/2016	5,160.30		
NV5 INC	3/21/2016	3/21/2016	3/21/2016	7,239.61		
NV5 INC	4/18/2016	4/18/2016	4/18/2016	8,005.92		
NV5 INC	4/18/2016	5/13/2016	6/2/2016	-52,536.24	44044	NV5 CBO Agreement For HBES
NV5 INC	5/11/2016	5/17/2016	6/25/2016	-56,551.37	45192	NV5 CBO Agreement For HBES
NV5 INC	5/23/2016	5/23/2016	5/23/2016	52,536.24		
NV5 INC	6/8/2016	6/13/2016	7/8/2016	-85,958.60	46570	June Invoice - NV5 CBO Agreement For HBES
NV5 INC	7/1/2016	7/1/2016	7/1/2016	85,958.60		June Invoice payment completed in July.
NV5 INC	7/7/2016	7/19/2016	8/6/2016	-91,807.30	48179	NV5 CBO Agreement For HBES
NV5 INC	8/1/2016	8/1/2016	8/1/2016	91,807.30		

SSMProject Number: 12-AFC-02C

# Site Specific Health & Safety Plan

**Huntington Beach Facility: Unit 5 Peaker and** 

#### **East Fuel Oil Tank Demolition**

# Prepared for:

AES North American Development LLC Attention: Mr. Joshua Wynia Project Manager 21730 Newland Street Huntington Beach, California 92646

# Prepared by:

Mark Cotter; MS, CIH, CSP GSD Corporate Environmental Safety and Health Director 7135 S. Lake Houston Parkway Houston, Texas 77049

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#### **AES Huntington Beach Facility**

21730 Newland Street, Huntington Beach, California 92646

#### Introduction

The Site Specific Health and Safety Plan (SSHASP) is designed for the controlled demolition of Unit 5 Peaker and the East Fuel Oil Tank with removal of debris and equipment at the AES Huntington Beach facility located at 21730 Newland Street in Huntington Beach, CA 92646. There is no subsurface work involved with this demolition. The objective for this initial phase of the overall project is to demolish the fuel oil storage tanks, the Peaker Building, the Maintenance storage Area, the Compressor Building, the small Fuel Oil Pump Station, the large Fuel Oil Storage Station, and the excavation of tank containment berms. Prior to this happening though, all the asbestos materials will be abated by a 3<sup>rd</sup> party, the lead painted surfaces stabilized and the hazardous and/or regulated waste streams removed and disposed or recycled.

The Pre- demolition work phase will include asbestos removal and on- site management of miscellaneous chemicals and universal waste from inside the structures targeted for demolition. All RCRA waste and universal wastes will be segregated pending removal by a licensed 3<sup>rd</sup> party vendor for final disposal. GSD will implement site specific work strategies and develop Job Specific Analysis (JSA's) for worker protection and to ensure the protection of the environment to any potential hazardous constituents. All work will be done under the supervision of an On-Site Health & Safety Officer with oversight by GSD's Certified Industrial Hygienist/ Certified Safety Manager.

Demolition operations shall be performed in a systematic manner. Structural members shall be safely lowered. Removal of debris from elevated portions of the building will be done by chute, hoist, or other device that conveys debris to grade level in a controlled descent using dust suppression. Removal, transportation, storage and disposal of hazardous, flammable, toxic, and corrosive substances shall be in strict compliance with governing laws and regulations.

This Site Specific Health and Safety Plan (SSHASP) relates to the removal and disposal of various types of asbestos, lead and regulated materials in preparation of the demolition of various structures and tanks situated at the Huntington Beach facility. This plan has been prepared in accordance with standard procedures, applicable laws, rules and regulations as specified herein, including but not limited to:

#### **Referenced Standards**

- Title 8, CCR Division 1, Chapter 4, Subchapter 4 Cal-OSHA Construction Safety Orders
- Title 29, CFR Sec. 1926, Subpart C (US EPA) General Safety & Health Provisions
- Title 29, CFR Sec. 1926, Subpart D (US EPA) Occupational Health & Environmental Controls

- Title 29, CFR Sec. 1926, Subpart E (US EPA) Personal Protective &Life Saving Equipment
- Title 29, CFR Sec. 1926, Subpart F (US EPA) Fire Protection & Prevention
- Title 29, CFR Sec. 1926, Subpart G (US EPA) Signs, Signals & Barricades
- Title 29, C.F.R. Sec. 1926, Subpart H (US EPA) Material Handling, Storage, Use, and Disposal
- Title 29, CFR Sec. 1926, Subpart I (US EPA) Tools Hand & Power
- Title 29, CFR Sec. 1926, Subpart J (US EPA) Welding and Cutting
- Title 29, CFR Sec. 1926, Subpart K (US EPA) Electrical
- Title 29, CFR Sec. 1926, Subpart L (US EPA) Scaffolds
- Title 29, CFR Sec. 1926, Subpart M (US EPA) Fall Protection
- Title 29, CFR Sec. 1926, Subpart O (US EPA)Motor Vehicles, Mechanized Equipment, and Marine Operations
- Title 29 CFR Sec. 1926, Subpart T (US EPA) Demolition
- Title 29 CFR Sec. 1926, Subpart W (US EPA) Rollover Protective structures; Overhead Protection
- Title 29, CFR Sec. 1926, Subpart X (US EPA) Stairways & Ladders
- Title 29, CFR Sec. 1926, Subpart AA (US EPA) Confined Spaces in Construction
- Title 29, CFR Sec. 1926, Subpart CC (US EPA) Cranes and Derricks in Construction
- Title 8, CCR §1532.1 Cal-OSHA Construction Safety Orders Lead
- Title 17, CCR §35001-§36100 Cal-OSHA Lead
- Title 29, C.F.R. Sec. 1910.1025 & .1450 Fed. OSHA General Standards (Lead)
- Title 29, C.F.R. Sec. 1926.62 Fed. OSHA Construction Standards (Lead)
- Title 40, C.F.R. Parts 260 & 261 (U.S. EPA) Lead
- Title 40, C.F.R. Parts 745 (U.S. EPA) Lead
- Title 29, CFR Sec. 1910.1001 (OSHA) Asbestos
- Title 29, CFR Sec. 1926.1101 (OSHA) Asbestos
- Title 40, CFR Part 61, Subparts a & M (US EPA) National emissions Standard for Hazardous Air Pollutants (NESHAP) Asbestos
- Title 8, CCR §1529 Cal-OSHA Construction Safety Orders Asbestos
- Title 29, CFR 1910.134 (US EPA) Respiratory Protection
- Title 29, CFR 1926 Subpart E (US EPA) PPE
- Title 8, CCR §1531 Cal OSHA Respiratory Protection
- Title 29, CFR 1910.95 & 1926.52 (US EPA) Noise Protection Standards
- Title 29, CFR 1910.38 (US EPA) Employee Emergency Plans
- Title 40, CFR 355 (US EPA) Emergency Planning and Notification
- Title 49, CFR 170-180 (US EPA) Hazardous Materials Regulation

#### **Site Description**

This electrical generation facility is home to two natural gas steam turbine generating units, generating up to 450 megawatts of power to the south/west Orange County area and two synchronous condensers. Under the previous owner (SCE), when the project was first constructed in the late 1950's to early 1960's, the four power generating units were fuel oil

powered, thus requiring fuel oil storage tanks and supporting structures. By the late 1980's, the fuel oil tanks and support structures were taken out of services and have been dormant ever since.

#### Scope of Work

This project consists of systematically dismantling and disposing of the assets listed in Appendix A of the Request for Proposal using a variety of removal techniques, engineering controls and means of access.

#### **Summary**

The following will be incorporated into this portion of work:

- Assignment of Duties
- Demarcation of Work Areas
- Removal of Materials
- Use of Respiratory Protection and other PPE
- Medical Monitoring and Periodic Evaluations

#### **Hazards Overview**

The possible hazards associated with the work activities outlined above are:

- Potential exposure to regulated and/or hazardous materials at or above the permissible exposure limit
- Work within Aerial Man lifts
- Back Strains
- Heat Stress
- Blunt Force Injuries
- Cuts, punctures, pinching, caught between and blunt force injuries
- Slips, trips, and falls on wet slippery surfaces, work off Lifts.
- Eye Injuries from flying debris or dust.
- Airborne contaminants exposure above the Permissible Exposure Limits (PEL).
- Back strains Material moving
- Electrical hazards (overhead)
- Equipment failure
- Noise

#### **Project Personnel and On Site Organization**

The key project personnel are as follows:

<u>Title</u>	Name	Company Phone	Mobile Phone
Project Manager	Mike Huber	281-770-5425	281-770-5425

The Project Manager will be present in the field and has overall responsibility for ensuring that the project is properly carried out. He coordinates between office and field personnel and manages administrative requirements for the HASP. This includes but is not limited to

overseeing any necessary adjustments are conveyed to AES for approval and incorporated onsite.

<u>Title                                    </u>	Name	Company Phone	Mobile Phone
<b>Project Foreman</b>	Gary Trail	281-770-5425	409-782-0643

The project foreman monitors the project's progress, regularly reviews the project schedule, and reviews all major work elements prior to implementation. He oversees scheduling and serves as the primary contact with the crew on production and for health and safety issues, and performs daily coordination with Site Safety Manager.

<u>Title</u>	Name	Company Phone	Mobile Phone
EHS Director	Mark Cotter	281-770-5425	716-517-5507

The EHS Director is in charge of all aspects of the corporate environmental, health and safety program, Project oversight and conducting QA/QC field audits to ensure compliance.

<b>Title</b>	Name	Company Phone	Mobile Phone
Site Safety M	anager Jesse Howlett	281-770-5425	832-808-1189

The Site Safety Manager (SSM) is responsible for the daily health and safety of GSD Inc. employees on the work site, unless otherwise specified in the plan. The SSM will establish operating standards in conjunction with the Project Manager and coordinate safety and health activities for the work site with the Project Foreman. He will review project plans and revisions to plans to assure that safety and health procedures are incorporated through all of the work phases. Specifically, he is responsible for:

- Ensuring each GSD Inc. employee on-site shall go through the training associated with AES safety requirements.
- Monitoring adherence to the AES established safety programs.
- Assuring that a complete copy of this Work Safety Plan is at the site prior to the start of work activities and that all workers are familiar with its contents.
- Understanding and overseeing the Job Safety Analysis (JSA's) for each and every applicable task.
- Conducting on-site health and safety orientation and briefing sessions where necessary.
- Ensuring the availability, use, proper maintenance of personal protective equipment and other safety or health equipment.
- Maintaining a high level of safety awareness among workers and communicating pertinent safety and health matters to them promptly.
- Assuring that all activities are performed in a manner consistent with the GSD Inc. standard operating procedures, this HASP, and AES' operational safety programs.
- Monitoring for unsafe conditions during field activities.
- Initiating immediate corrective actions in the event of an emergency or unsafe condition.
- Promptly notifying the Project Manager and AES of any emergency, unsafe condition,

- problem encountered or needed exception to this HASP.
- Recommending improvements in safety and health measures to the Project Manager.
- Coordinating with Project Foreman to implement safety and health improvements.
- Conducting safety and health performance and system audits.

#### The SSM has the authority to:

- Suspend activities or otherwise limit exposures if the health or safety of any person appears to be endangered.
- Notify personnel to alter work practices that he/she deems to not properly protect them or the environment surrounding them.
- Suspend an individual from work for violation of the requirements of this HASP, GSD Inc. Procedures or AES Safety Procedures.

# Work Area Access and Isolation

Access to the work site will be limited to trained authorized personnel governed by this plan. The site shall be divided into two well-delineated areas, as follows:

- Work Area: This area includes the actual areas of physical work and has the highest risk potential. Including exclusion zone for demolition of Peaker, Compressor Building, Berms, and appurtenances.
- Employee Staging Area: This area includes the location where workers meet in the mornings to go over the safety considerations and work for the day, mobilizes supplies and equipment to the work area, and take breaks throughout the day. This area will be designated during mobilization and coordinated with AES.

Access to the established work area is limited to only those authorized personnel wearing the appropriate personal protective equipment (PPE); identified by specified California Energy Commission training requirements and AES operational safety training requirements with hard hat stickers.

The work area will be cordoned off using red barricade tape fastened to stanchions or stationary items at approximately 3-4 feet off of the ground. Signs indicating Demolition work zone will be stationed in conspicuous locations to prevent access by unauthorized personnel. The work area will be monitored by the SSM to ensure personnel do not enter without proper PPE and training. A sign-in log will be employed to ensure that only authorized employees are on-site and employed within the work area.

The Project Foreman/SSM and/or his designee shall maintain site security and control and will work in conjunction with the designated ASE safety professional. Their duties include limiting access to the site to authorized personnel, oversight of the project equipment and materials, and general over-sights of site activities, as appropriate.

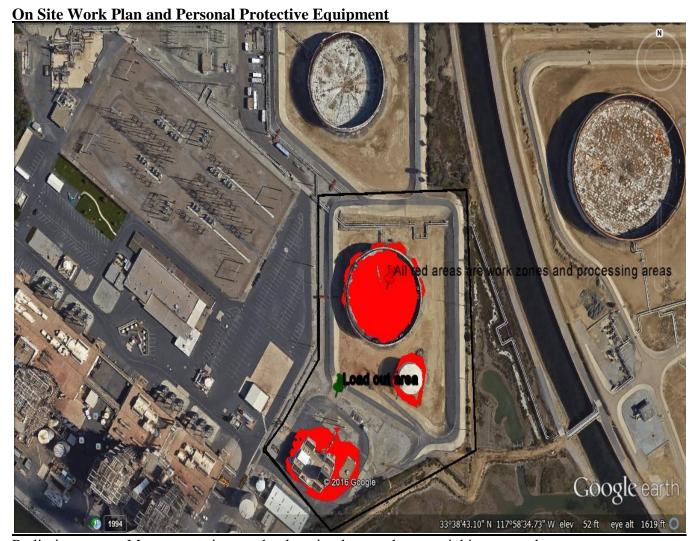
#### **Hazard Evaluation**

Controlled demolition work involving hand and mechanical means exposes employees to potential hazards such as but not limited to cuts/lacerations, crush inhalation, equipment failure,

and slips trips and fall. Equipment will be inspected each day prior to use, and all employees will be briefed about daily work scope to clarify what areas will be demolished and the hazards associated with that process.

A wind erosion and dust suppression plan will mitigate ambient dust. Hazard prevention is readily accomplished by a combination of material evaluation, engineering controls, personnel protection, employee hygiene techniques, open communication, and employee exposure monitoring as required by CAL/OSHA .GSD follows a hazard prevention process that involves:

- Creating a JSA for each task identifying hazards and mitigations.
- Implementing Administrative controls (utilize mechanical means to reduce frequency of personnel exposure).
  - o Use of long handle torches to minimize lead exposure.
  - Use of hydraulic shears vs manual cutting to minimize lead and proximity exposure to hazards.
- Implementing engineering controls (ex. physical barricades to leading edges, water suppression for high dust activities).
- Supplementing the administrative and engineering controls with PPE identified in the JSA.



Preliminary map. Most processing can be done in place as the material is removed.

#### Work to be performed:

- Mobilization onto site
- Work Area Demarcation/Set Up
- Establish Exclusion Zone
- Controlled demolition of structures
- Waste Load Out

#### Potential hazards during this work include (but not limited to):

- Potential exposure to regulated and/or hazardous materials at or above the permissible exposure limit
- Work within Aerial Man lifts
- Back Strains

- Blunt Force Injuries
- Cuts, punctures, pinching, caught between and blunt force injuries
- Slips, trips, and falls on wet slippery surfaces, work off lifts
- Eye Injuries from flying debris or dust
- Airborne exposure above the Permissible Exposure Limits (PEL)
- Back strains Material moving
- Electrical hazards
- Equipment failure

GSD Inc. will utilize spotters for loading and unloading activities from pre-approved demarked loadout areas. Also a separate JSA will be developed for this activity along with employee training.

#### **Personal Protective Equipment**

Personnel will use hard hats, gloves, eye protection, and steel-toed work boots. Additionally, the crews will be outfitted with fire resistant clothing at all times when in the plant.

#### **Hearing protection**

Upon initial hiring, all employees will be trained in the hazards presented by excessive noise levels in the workplace, and the use and care of hearing protection devices. Training will be repeated annually for each employee and updated to reflect changes in personal protective equipment (PPE) and work processes or requirements. Corporate Health and Safety Director (Mark Cotter) will provide oversight on the Hearing Conservation Program (HCA) to ensure;

- Hearing protectors are available at no cost to all employees exposed to an 8-hr. time-weighted average of 85 decibels or upon request. Hearing protection will be replaced as necessary. Each employee will be properly trained in the use, care, and fitting of hearing protectors. Employees will be given the opportunity to select their hearing protectors from a variety of suitable hearing protectors.
- GSD Trading USA, Inc. will provide a continuing effective hearing conservation
  program when information from monitoring or historical data indicates that employee
  exposure may equal/exceed the 8 hr time- weighted avg. of 85 decibels; GSD will
  implement a monitoring program to identify employees to be included in the hearing
  conservation program.
- Employees will be required to wear hearing protection in work areas whenever employee noise exposures equal or exceed an 8-hour time-weighted average sound level (TWA) of 85 decibels measured on the A scale (slow response)
- GSD will maintain an audiometric testing program by making audiometric testing available to all employees whose exposures equal or exceed an 8-hr. time- weighted avg. 85 decibels. The program is provided at no cost to employees.
- Audio monitoring will be implemented if it is believed noise levels in work areas are approaching or exceed action level limits as set by table G-16 of 1910.95. If monitoring results indicate exposures equaling or exceeding safe limits, an employee will be included in a hearing conservation program.

• Within 6 months of an employee's first exposure at or above the action level, GSD Trading USA, Inc. shall establish a valid baseline audiogram against which future audiograms can be compared.

#### Anticipated work activities that may exceed actions levels for HCP include:

- Use of heavy equipment for demolition
- Proximity of workers performing manual work for demolition, including saw cutting to be performed at the Peaker building and excavation of tank containment berms.

#### **Medical Monitoring**

Medical monitoring will be required for those employees required to wear respirators. Employees who wear or may wear respiratory protection must be provided respirators in accordance with the guidelines of 29 CFR 1910.134. - All personnel must follow GSD's Respiratory Protection Plan. GSD requires that all employees involved in torch burning wears at minimum a half face respirator with P-100 filters.

The regulation requires that an individual's ability to wear respiratory protection be medically certified before he/she performs designated duties.

Employees who wear or may wear hearing protection devices must be provided to them in accordance with the guidelines of 29 CFR 1910.95. This regulation requires that an individual's hearing level be medically evaluated.

Medical documents are on file for all GSD Inc. personnel and may be provided as needed.

#### **Respiratory Protection**

Every consideration will be given to the use of effective administrative & engineering controls to eliminate or reduce exposure to respiratory hazards to the point where respirators are not required in controlling toxic substances; appropriate respiratory protective equipment will be provided by the company at no charge to the employee. Respiratory protective devices will be appropriate for the hazardous material(s) involved, & the extent & nature of the work requirements & conditions. Employees required to use respirators will be properly fitted, appropriately tested, medically screened, & thoroughly trained in their use. Respiratory Protection will meet standards as set in:

- Title 29, Part 1910, Section 134 of the Code of Federal Regulations
- Title 8, CCR §1531 Cal OSHA Respiratory Protection
- Title 29, Part 1910, Section 20 of the Codes of Federal Regulations NIOSH/MSHA Approvals for Respirators
- Title 42 CFR 84, of the Code of Federal Regulations American National Standards
- American National Standard: Practices for Respiratory Protection, Z88,2-1980

#### Several activities that may trigger the use of respirators may include:

• Torch cutting on metal surfaces with know or suspect lead based paint within the

buildings or tanks.

• Any areas that may contain residual asbestos within Peaker or Compression Building.

#### **Personnel Training**

Site Workers: All employees performing activities must have satisfactorily completed the following prior to their start of work on the site.

Site Specific Training: Site specific training shall be provided to each employee before beginning work on site. Personnel will be briefed by the SSM as to the potential hazards to be encountered. Topics will include:

- Availability of this Plan.
- General site hazards and specific hazards in the work areas including those attributable to the contaminants and/or hazards present.
- Selection, use, testing and care of the body, eye, ear hand, foot, and respiratory protective equipment to be worn, with the limitations of each.
- Decontamination procedures for personnel, their personal protective equipment and other equipment used on the site.
- Emergency response procedures and requirements.
- Emergency alarm systems and other forms of notification, and evacuation routes to be followed.
- Methods to obtain emergency assistance and medical attention.

#### **Emergency Response-Notification of Site Emergencies**

In the event of an emergency, all employees shall be notified to exit the work area immediately. Appropriate authorities and the control room will be immediately notified of the nature and extent of the emergency. See Attachment A for nearest clinic directions (attach map and written directions).

The table below shows Emergency Response Telephone Numbers. This table will be maintained at the work site by the SSM.

0 1	Emergency	Response	Telephone	Numbers
-----	-----------	----------	-----------	---------

Fire Department	911
Police Department	911
Ambulance	911

Should someone be transported to a hospital or doctor, a copy of this Health and Safety Plan must accompany them.

#### **Emergency Responsibilities**

The SSM (or designee) will be responsible for responding to all emergencies. The SSM will: (1) Notify appropriate individuals authorities and/or health care facilities of the potentially hazardous activities and potential wastes that may develop as a result of the investigation; (2)

Have working knowledge of safety equipment available at the site; and (3) Ensure that a map which details the most direct route to the nearest medical clinic is prominently posted with the emergency telephone numbers.

Employees who will respond to emergency situations involving hazardous materials shall be trained in how to respond to such emergencies. The Project Foreman will ensure that the following safety equipment is available at the site: eyewash station, first aid supplies, and fire extinguishers. During the pre-task planning process when the JSA is being created for the task emergency equipment will be reviewed to ensure it is appropriate and correctly placed.

#### **Accidents and Injuries**

In the event of a safety or health emergency at the site, appropriate emergency measures will immediately be taken to assist those who have been injured or exposed and to protect others from hazards. Personnel trained in first aid procedures will be present during site activities to provide appropriate treatment of injuries or illnesses occurring during operations.

In the event of a safety or health emergency at the site, the SSM will immediately notify AES and the GSD Inc. Safety and Health Coordinator. Upon notifications of an exposure incident, the SSM will contract the appropriate emergency response personnel, who will, according to the seriousness of the accident, provide recommended medical diagnosis and, if necessary, treatment.

The Project Manager and Project Foreman/SSM will be immediately informed of any injuries or incidents. The Project Foreman/SSM will investigate facility/site conditions to determine the cause of the incident and the means to be taken to prevent the incident from recurring.

The Project Foreman/SSM and the affected individual(s) will complete an incident reporting form. The form will be filed with the employee's medical and safety records to serve as documentation of the incident and the actions taken.

#### **Site Communications**

Daily safety meetings will be used to communicate any new work practices, important site information, and acknowledge positive behaviors .Two way radios will be utilized when possible for communication between employees. Hand signals will be utilized where mobile phones and two way radios are impractical.

#### **Emergency Response**

In case of emergency, site personnel should evacuate to the designated safe refuge location, both for their own personal safety and prevent hampering response/rescue efforts as designated by AES. A Command Center will be established with the assistance of AES within a safe distance of the affected area. Unless changed by the Project Manager, the command center will be used as the safe refuge. In the case of an evacuation, the Project Foreman/SSM will account for all personnel and communicate this information to AES. A log of all individuals entering and leaving the site will be kept so that everyone can be accounted for in an emergency.

In the event of an emergency, the Project Foreman/SSM will direct all notification, response and follow up actions. Contact with any outside response personnel (ambulance, fire department, etc.), will be done at the discretion of the SSM and with the coordination through AES, again with the individuals trained in first aid procedures. If an individual is transported to a hospital or a doctor, a copy of this HASP must accompany the individual.

Follow up activities must be completed before on site work is resumed following an emergency. All used emergency equipment must be recharged, refilled, or replaced. Government agencies (including the California Energy Commission and designees) must be notified as appropriate. An investigation of the incident will be initiated within 24 hours. The resulting report will provide an accurate, objective, complete and authenticated (signed and dated) document.

#### Medical / First Aid Response

Trained personnel competent in such matters will be the only person allowed to provide on-site medical and/or first aid response to an injury or illness. The SSM is responsible for directing these actions and contracting the appropriate off-site response personnel (paramedics, etc.). The designated health and first aid clinic for this project will be US Healthworks located at 3100 West Warner Avenue in Santa Ana (see attached map for directions). Their phone number is (714) 546-4233.

#### **Fire Fighting Procedures**

A fire extinguisher, intended for small fires, will be available for all open flame / hot work and on all operating piece of equipment during all site activities. When the fire cannot be controlled with the extinguisher, the area should be evacuated immediately. The SSM (or designee) will determine the time to contact fire department and response personnel.

GSD Inc. will review AES operational fire protection protocol and ensure compliance prior to starting any hot work.

#### **Emergency Equipment**

On-site equipment for safety and emergency response shall be maintained, as follows:

- Fire Extinguisher
- First Aid Kit
- Eye Wash Station (wash bottles at a minimum)
- Extra Copy of the Health and Safety Plan

These will be located on site near the point of current activities or in the staging area. All employees will be notified of its location if any item is to be moved.

#### Special Precautions - Heat Stress/Cold Injury Protection Program

Formal training in prevention of heat and/or cold injuries will be provided as part of the site-specific training. Informal review of these techniques will be made as part of daily pre work briefings. Any person who experiences signs of heat related distress would be instructed to stop working immediately. Medical attention will be sought if there is any doubt that prompt and full

recovery will result without it. Symptoms of heat related distress includes muscle cramps, pale and clammy or hot, dry flushed skin, confusion, disorientation and incoherent speech, nausea and/or convulsions.

#### **Construction Materials and Site Refuse**

All construction materials and site refuse will be contained in the specified appropriate areas coordinated with AES. Site personnel should make certain that trash, plastic sheeting, filters, rags, vacuum bags, PPE, etc., are not scattered throughout the area of activity and that trash and contaminated materials are immediately and properly packaged and labeled.

#### **Additional Safety Practices**

The following are important safety precautions that will be enforced during this work:

- Medicine and alcohol can mask the effect from exposure to certain compounds.
   Personnel involved on project must not consume controlled substances or alcohol.
   Consumption of prescribed drugs must be at the direction of a physician familiar with the person's work.
- An adequately stocked first aid kit will be on-scene at all times during operational hours.
- Contact with potentially contaminated surfaces should be avoided whenever possible.
- Half Face respirators (if used) in use will be inspected prior to each use.
- Cartridges for respirators in use will be changed as required and or if they get wet.
- No excessive facial hair that interferes with the effectiveness of a respirator will be
  permitted on personnel required to wear respiratory protection equipment. The respirator
  must seal against the face so that the wearer receives air only through the air purifying
  cartridges attached to the respirator use to ensure that a proper seal is obtained by the
  wearer
- Unsafe equipment left unattended will be identified by a "DANGER, DO NOT OPERATE" tag.
- Legible and understandable precautionary labels shall be prominently affixed to containers of waste debris, and contaminated clothing.
- Signs declaring the demolition work zone will be placed in conspicuous locations

#### **Daily Log Contents**

The Project Manager and the SSM will establish a log in/out system appropriate to the site, that will record, at a minimum, the following information: Personnel on the site, their arrival and departure times and their destination on the site; Incidents and unusual activities that occur on the site such as, but not limited to, accidents, spills, breaches of security, injuries, equipment failures and weather related problems; Conversations that may affect the work as: (1) Media Visits, (2) Safety and Health Inspections by SSM and external agencies, (3) Owner/Agent Meetings and (4) Employee Meetings; Changes to the Work and Health and Safety Plan; Daily Information generated such as (1) Changes to the Work and Health and Safety Plans, (2) Work accomplished and the current site status, and (3) Air monitoring results (If applicable); Personnel in PPE and times of PPE in contamination zone.

**AES Huntington Beach Facility** 

21730 Newland Street, Huntington Beach, California 92646

# SITE SPECIFIC EMERGENCY RESPONSE AND SAFETY PLAN

# Plan Acknowledgment

All site personnel have read the above plan and are familiar with its provisions.

Printed Name	Signature	
Project Manager		
Project Foreman		
Other Site Personnel		
	Prepared By:	Mark Cotter
		(Name)
	(Signature)	Mah Call
	Title:	Environmental Health and Safety Director
	Date:	July 27, 2016

# **US Healthworks Santa Ana (Warner Ave)**



21730 Newland St, Huntington Beach, CA 92646, USA

8.7 mi about 19 mins

1.	Head northeast on Newland St toward Edison Drive	3.8 mi
2.	Turn right onto Talbert Ave	2.8 mi
3.	Continue onto W MacArthur Blvd	0.6 mi
4.	Turn left onto S Harbor Blvd	0.8 mi
5.	Turn right onto W Warner Ave	0.5 mi



3100 W. Warner Ave., Santa Ana, CA 92704

Destination will be on the left



GSD's scope of work is to demolish select buildings, equipment, structures and associated facilities within its natural gas fired power plant located at 21730 Newland Street in Huntington Beach, CA 92646 The demolition work will be performed on buildings, equipment, structures and facilities in the Demolition Work Area as defined as Unit 5 Peaker and the East Fuel Oil Tank Demolition

Demolition operations shall be performed in a systematic manner. Any structural member that is being demolished shall not support any load other than its own weight. Structural members shall be safely lowered. Removal of debris from elevated portions of the building by chute, hoist, or other device that conveys debris to grade level shall maintain material in a controlled descent. Removal, transportation, storage and disposal of hazardous, flammable, toxic, and corrosive substances shall be in strict compliance with governing laws and regulations,

# Site Specific Health and Safety Plan

For

# **AES Huntington Beach Energy Pipeline Removal**

21730 Newland Street, Huntington Beach, CA 92646

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#### INTRODUCTION

W.A. Rasic has completed this Site Specific Safety Plan as it relates to the removal and disposal of various types of asbestos, lead and regulated materials in preparation of the demolition of various structures and tanks situated on the Huntington Beach facility. This plan has been prepared in accordance with standard procedures, applicable laws, rules and regulations as specified herein, including but not limited to: **REFERENCED STANDARDS:** 

- Title 8, CCR Division 1, Chapter 4, Subchapter 4 Cal-OSHA Construction Safety Orders
- Title 29, CFR Sec. 1926, Subpart C (US EPA) General Safety & Health Provisions
- Title 29, CFR Sec. 1926, Subpart D (US EPA) Occupational Health & Environmental Controls
- Title 29, CFR Sec. 1926, Subpart E (US EPA) Personal Protective & Life Saving Equipment
- Title 29, CFR Sec. 1926, Subpart F (US EPA) Fire Protection & Prevention
- Title 29, CFR Sec. 1926, Subpart G (US EPA) Signs, Signals &Barricades
- Title 29, CFR Sec. 1926, Subpart I (US EPA) Tools- Hand & Power
- Title 29, CFR Sec. 1926, Subpart K (US EPA) Electrical
- Title 29, CFR Sec. 1926, Subpart L (US EPA) Scaffolds
- Title 29, CFR Sec. 1926, Subpart M (US EPA) Fall Protection
- Title 29, CFR Sec. 1926, Subpart N (US EPA) Hoists
- Title 29, CFR Sec. 1926, Subpart X (US EPA) Stairways & Ladders
- Title 29, CFR Sec. 1926, Subpart AA (US EPA) Confined Spaces in Construction
- Title 29, C.F.R. Sec. 1926 .. 1101- 1050 (OSHA), Expanded for Lead
- Title 8, CCR §1532 .. 1 Cal-OSHA Construction Safety Orders Lead
- Title 17, CCR §35001-§36100 Cal-OSHA Lead
- Title 29, C.F.R. Sec. 1910 .. 1025 & .1450 Fed. OSHA General Standards (Lead)
- Title 29, C.F.R. Sec. 1926 .. 62 Fed. OSHA Construction Standards (Lead)
- Title 40, C.F.R. Parts 260 & 261 (U.S. EPA)- Lead
- Title 40, C.F.R. Parts 745 (U.S. EPA)- Lead
- Title 29, CFR Sec. 1910 .. 1001 (OSHA) Asbestos
- Title 29, CFR Sec. 1926 .. 1101 (OSHA) Asbestos
- Title 40, CFR Part 61, Subparts a & M (US EPA) National emissions Standard for Hazardous Air Pollutants (NESHAP) Asbestos
- SCAQMD Rule 1149, Storage Tank and Pipeline Cleaning and Degassing

#### SITE DESCRIPTION

The site is home to two natural gas steam turbine generating units, generating up to 450 megawatts of power to the south/west Orange County area and two synchronous condensers. Under the previous owner (SCE), when the project was first constructed in the late 1950's to early 1960's, the four power generating units were fuel oil powered, thus requiring fuel oil storage tanks and supporting

structures. By the late 1980's, the fuel oil tanks and support structures were taken out of services and have been dormant ever since. The objective for this initial phase of the overall project is to demolish one of the fuel oil storage tanks, along with the Peaker Building, the Maintenance storage Area, the Compressor Building, the small Fuel Oil Pump Station, the Fuel Oil Storage Tank Bunker, and the large Fuel Oil Storage Station. Prior to this happening though, all the asbestos materials will need to be abated, the lead painted surfaces stabilized and the hazardous and/or regulated waste streams removed and disposed or recycled. This is the portion of the project that this plan will address.

#### **SOPE OF WORK**

Determine the existence and to remove identified residual materials from approximately 1,339 linear feet of 10" insulated pipeline and 950 linear feet of 12" and 20" insulated pipeline. Removal of non-asbestos and asbestos containing insulating materials. A comprehensive Spill Prevention, Control and Countermeasures (SPCC) plan for all operations including any unidentified and identified residual materials remaining in pipeline system, isolation and/or securing of pipeline system into manageable sections for both future demolition and to prevent any material from entering the "emptied" fuel oil pipeline. Preparation for future demolition, transportation and disposal of the fuel oil pipeline.

#### **SUMMARY**

The following will be incorporated into this portion of work:

- Assignment of Duties
- Demarcation of Work Areas
- Work within Aerial ManLifts
- Work on Portable Ladders
- Work on Scaffolding
- Removal of Materials
- Use of Respiratory Protection and other abatement PPE
- Medical Monitoring and Periodic Evaluations

#### **HAZARDS OVERVIEW**

The possible hazards associated with the work activities outlined above are:

- Potential exposure to asbestos, natural or manmade minerals, and fibers at or above the permissible exposure limit
- Potential exposure to lead, natural or manmade minerals, and particulates at or above the permissible exposure limit
- Potential exposure to regulated and/or hazardous materials at or above the permissible
- Work with scaffold
- Work off of portable ladders
- Slips, trips and falls
- Back strains
- Blunt force injuries
- Cuts and lacerations

#### **PROJECT PERSONNEL and ON SITE ORGANIZATION**

TITLE NAME COMPANY PHONE MOBILE PHONE

Project Manager: Jack Quick 562-928-6111 310-864-0154

The Project Manager has overall responsibility for ensuring that the project is properly carried out. He coordinates between office and field personnel and manages administrative requirements for the HASP.

Project Foreman: Jack Quick 562-928-6111 310-864-0154

The project foreman monitors the project's progress, regularly reviews the project schedule, and reviews all major work elements prior to implementation. He oversees scheduling and serves as the primary contact with the crew on production and for health and safety issues.

Safety Director: Gene DeTinne 562-928-6111 310-964-0001

The Safety Director is in charge of all aspects of the corporate health and safety program, as well as, the initial training and re-training of all management and field personnel on an annual basis.

Once work is about to begin, a Site Safety & Health Officer (SSHO) will be designated (normally the project Forman). The Site Safety & Health Officer (SSHO) is responsible for the health and safety of Argus employees on the work site, unless otherwise specified in the plan. The SSHO will establish operating standards in conjunction with the Project Manager and coordinate safety and health activities for the work site. He will review project plans and revisions to plans to assure that safety and health procedures are incorporated through all of the work phases. Specifically, he is responsible for:

- Each W.A. Rasic employee onsite shall go through the training associated with AES safety requirements.
- Ensuring adherence to the AES established safety programs.
- Assuring that a complete copy of this Work Safety Plan is at the site prior to the start of work activities and that all workers are familiar with its contents.
- Understanding and overseeing the Task Safety Analysis (TSA's) for each and every applicable task.
- Conducting on-site health and safety orientation and briefing sessions where necessary.
- Ensuring the availability, *use*, proper maintenance of personal protective equipment, other safety and health matters and seeing to them promptly.
- Assuring that all activities are performed in a manner consistent with the Argus standard operating procedures and this HASP.
- Monitoring for dangerous conditions during field activities.
- Initiating immediate corrective actions in the event of an emergency or unsafe condition.
- Promptly notifying the Project manager of any emergency, unsafe condition, problem encountered or needed exception to this HASP.
- Recommending improvements in safety and health measures to the Project manager.
- Conducting safety and health performance and system audits.

#### The SSHO has the authority to:

• Suspend activities or otherwise limit exposures if the health or safety of any person appears to be endangered.

- Notify personnel to alter work practices that he/she deems to not properly protect them or the environment surrounding them.
- Suspend an individual from work for violation of the requirements of this HASP, W.A. Rasic Safety Policies and Procedures or AES Safety Policies and Procedures.

#### **WORK AREA ACCESS and ISOLATION**

Access to the work site will be limited to personnel that have completed the AES safety training and trained authorized personnel governed by this plan. The site shall be divided into two well delineated areas, as follows:

- Work Area: This area includes the actual areas of physical work and has the highest risk potential.
- Employee Staging Area: This area includes the location where workers meet in the mornings to go *over* the safety considerations and work for the day, mobilizes supplies and equipment to the work area, and take breaks throughout the day.

Access to the established work area is limited to only those authorized personnel wearing the appropriate personal protective equipment (PPE).

The work area will be cordoned off with the required signs and barrier tape indicating the potential hazard to be encountered within the exclusion zone to prevent access by unauthorized personnel. The work area will be monitored by the SSHO to ensure personnel do not enter without proper PPE. A sign in log will be employed to ensure that only authorized employees are on-site and employed within the work area.

The Project Foreman/SSHO and/or his designee shall maintain site security and control and will work in conjunction with the designated ASE safety professional. Their duties include limiting access to the site to authorized personnel, oversight of the project equipment and materials, and general over-sights of site activities, as appropriate.

Due to potential exposure hazards through either inhalation or contact. NIOSH approved respirators with either HEPA or particulate falters will be used throughout the course of the project and will be incorporated at a minimum as protection against inhalation the hazards. In addition, the work will require the use of Trained (licensed) and Medically Monitored Workers. Prevention of exposure is readily accomplished by a combination of material evaluation, engineering controls, personnel protection, employee hygiene techniques, and employee exposure monitoring.

#### ON SITE WORK PLAN and PERSONAL PROTECTIVE EQUIPMENT

Work to be performed:

- Mobilization onto site
- Work area demarcation/set up
- Establish exclusion zone
- Erection of scaffold platforms (by third party subcontractors)
- Preparation of surfaces to be abated/stabilized
- Abatement, stabilization and removal of regulated and/or hazardous materials
- Final cleaning/detail work
- Waste load out/teardown

#### **HAZARD EVALUATION**

- Potential hazards during this work include:
  - Cuts, punctures, pinching, caught between and blunt force injuries
  - Slips, trips, and falls on wet slippery surfaces, work off scaffold and Lifts.
  - Eye Injuries from flying debris or dust.
  - Exposure above the permissible exposure limits.
  - Back strains- Material moving

#### PERSONAL PROTECTIVE EQUIPMENT

Personnel will use respirators in compliance with levels set forth in Table I. Air purifying half face respirators will be fitted with disposable HEPA or particulate filter cartridges, Disposable Tyvek®-type coveralls with hoods, hard hats, gloves, eye protection, and steel-toed/steel shanked work boots. Additionally, the crews will be outfitted with fire resistant clothing at all times when in the plant.

#### **Table 1. Respiratory protection for Lead Dust**

Table 1 -- Assigned Protection Factors 5

	Assigned Protection Factors <sup>6</sup>					
Type of Respirator <sup>1,2</sup>	Quarter mask	Half mask (filtering facepiece)	Half mask (elastomeric)	Full facepiece	Helmet/ hood	Loose- fitting facepiece
Air-Purifying Respirator	5	1 <sup>3</sup>	104	50		
Powered Air-Purifying Respirator (PAPR)			50	1,000	25/1,0005	25
Supplied-Air Respirator (SAR) or Airline Respirator						
Demand mode			10	50		
Continuous flow mode			50	1,000	25/1,0005	25
Pressure-demand or other positive- pressure mode			50	1,000		
Self-Contained Breathing Apparatus (SCBA)						
Demand mode			10	50	50	
Pressure-demand or other positive- pressure mode (e.g., open/closed circuit)				10,000	10,000	

#### Notes

<sup>&</sup>lt;sup>1</sup> Employers may select respirators assigned for use in higher workplace concentrations of a hazardous substance for use at lower concentrations of that substance, or when required respirator use is independent of concentration.

<sup>&</sup>lt;sup>2</sup>The assigned protection factors in Table 1 are only effective when the employer implements a continuing, effective respirator program as required by this section (29 CFR 1910.134), including training, fit testing, maintenance, and use requirements.

<sup>3</sup>Th is APF category includes filtering face pieces, and half masks with elastomeric facepieces.

he employer must have evidence provided by the respirator manufacturer that testing of these respirators demonstrates performance at a level of protection of 1,000 or greater to receive an APF of 1,000. This level of performance can best be demonstrated by performing a WPF or SWPF study or equivalent testing. Absent such testing,

all other PAPRs and SARs with helmets/hoods are to be treated as loose-fitting facepiece respirators, and receive an APF of 25.

<sup>5</sup>These APFs do not apply to respirators used solely for escape. For escape respirators used in association with specific substances covered by 29 CFR 1910 subpart Z, employers must refer to the appropriate substance-specific standards in that subpart. Escape respirators for other IDLH atmospheres are specified by 29 CFR 1910.134 (d)(2)(ii).

#### **EXPOSURE ASSESSMENTS and MONITORING (LEAD)**

A. Blood lead level requiring employee medical removal. (Level must be confirmed with second follow up blood lead level within two weeks of first report.

- >than or= to 80 ug/100 g or average of last three blood samples or all blood samples over previous 6 months (whichever is over a longer time period) is 50 ug/100 g or greater unless last blood sample is 40 ug/100 g or less.
- B. Frequency which employees exposed to action level of lead (30 ug/m(3) TWA) must have blood lead level checked (ZPP is also required in each occasion that a blood lead is obtained.):
  - Last Blood Lead Level< 40 ug/100 g- (every 6 Months)</li>
     Last Blood Lead Level between 40 ug/100 g and level requiring medical removal (see A above)- (every 2 Months)
     Employees removed from exposure to lead because of an elevated Blood Lead Level (every Month)
- C. Permissible airborne exposure limit for workers removed from work due to an elevated blood lead level (without regard to respirator protection).
  - 30 ug/m(3) 8 hr TWA.
- D. Blood Lead Level confirmed with a second analysis, at which employee may return to work. Permissible exposure without regard to respiratory protection is listed by industry in Table 1.
  - .40 ug/100 g

Personal air samples shall be taken from the breathing zone and be representative of the 8-hour TWA of each employee in the area for the work shift performing the same job functions. One cassette used to sample for personal exposure monitoring should be taken for 30 minutes during peak exposure and analysis independently as an excursion measurement, as well as, part of the 8 hour TWA personal exposure measurement.

Table 2. Respiratory protection for Asbestos Fibers

Airborne concentration of asbestos or condition	Required respirator
of use	
Not in excess of 1 f/cc (10 X PEL)	Half-mask air purifying respirator other than a
	disposable respirator, equipped with high
	efficiency filters.
Not in excess of 5 f/cc (SO X PEL)	Full facepiece air-purifying respirator equipped
	with high efficiency filters.
Not in excess of 10 f/cc (100 X PEL)	Any powered air-purifying respirator equipped
	with high efficiency filters or any supplied air
	respirator operated in continuous flow mode.
Not in excess of 100 f/cc (1,000 X PEL)	Full facepiece supplied air respirator operated in
	pressure demand mode.
Greater than 100 f/cc (1,000 X PEL) or unknown	Full facepiece supplied air respirator operated in
concentration	pressure demand mode, equipped with an auxiliary
	positive pressure self-contained breathing
	apparatus.

#### Notes:

<sup>1</sup>Employers may select respirators assigned for use in higher workplace concentrations of a hazardous substance for use at lower concentrations of that substance, or when required respirator use is independent of concentration. <sup>2</sup>The assigned protection factors in Table 1 are only effective when the employer implements a continuing, effective respirator program as required by this section (29 CFR 1910.134), including training, fit testing, maintenance, and use

3Th is APF category includes filtering facepieces, and half masks with elastomeric face pieces.

I'he employer must have evidence provided by the respirator manufacturer that testing of these respirators demonstrates performance at a level of protection of 1,000 or greater to receive an APF of 1,000. This level of performance can best be demonstrated by performing a WPF or SWPF study or equivalent testing. Absent such testing, all other PAPRs and SARs with helmets/hoods are to be treated as loose-fitting facepiece respirators, and receive an APF of 25.

<sup>5</sup>These APFs do not apply to respirators used solely for escape. For escape respirators used in association with specific substances covered by 29 CFR 1910 subpart Z, employers must refer to the appropriate substance-specific standards in that subpart. Escape respirators for other IDLH atmospheres are specified by 29 CFR 1910.134 (d)(2)(ii).

#### **EXPOSURE ASSESSMENTS and MONITORING (ASBESTOS)**

#### 1) Time weighted Average Limit (TWA)

No employee shall be exposed to an airborne concentration of asbestos in excess of 0.1 fibers per cubic centimeter of air (f/cc) as an 8 hour time weighted average.

#### 2) Excursion Limit

Permissible Exposure Limit (PEL) for asbestos is 0.1 fiber per cubic centimeter of air as an eighthour time-weighted average (TWA), with an excursion limit (EL) of 1.0 asbestos fibers per cubic centimeter over a 30-minute period.

• Personal air samples shall be taken from the breathing zone and be representative of the 8-hour TWA of each employee in the area for the work shift performing the same job functions. One cassette used to sample for personal exposure monitoring should be taken for 30 minutes during peak exposure and analysis independently as an excursion measurement as well as part of the 8 hour TWA personal exposure measurement

No changes are to be made to the level of protection without approval of the SSHO or Project Manager.

#### **DECONTAMINATION PROCEDURES**

Personnel and equipment leaving the work area shall be thoroughly decontaminated. Decontamination of personnel will be by washing with a soap/water mixture followed by clean water rinse. Equipment will be wet wiped and HEPA vacuumed as needed to a visually clean condition.

All respirator filters, protective clothing and decontamination waste will be disposed of in accordance with industry standards.

A remote decontamination unit shall be positioned in a centralized location. This will be comprised of a dirty chamber and a clean chamber.

All personnel, prior to leaving the site shall pass through this area.

Contaminated protective equipment, materials and equipment/instruments shall not be removed from the work areas until they have been properly cleaned or properly packaged and labeled.

Employees shall not be permitted to exit the regulated area until the contaminated outer clothing and equipment have been removed and employees have proceeded to the remote decontamination facility

to pass through the dirty room/wash chamber to thoroughly decontaminate both themselves and their respiratory equipment.

Removal of materials from protective clothing or equipment by blowing, shaking, or any other means that may disperse materials into the air is prohibited.

Equipment will be decontaminated prior to their removal from the work area(s).

#### **MEDICAL MONITORING**

Employees who wear or may wear respiratory protection devices must be provided to them in accordance with the guidelines of 29 CFR 1910.134. All personnel must follow attached Respiratory Protection Plan.

The regulation requires that an individual's ability to wear respiratory protection be medically certified before he/she performs designated duties.

Employees who wear or may wear hearing protection devices must be provided to them in accordance with the guidelines of 29 CFR 1910.95. This regulation requires that an individual's hearing level be medically evaluated.

Medical documents are on file for all W.A. Rasic Construction personnel and may be provided as needed.

#### **PERSONNEL TRAINING**

Site Workers: All employees performing activities must have satisfactorily completed one of the following prior to their start of work on the site.

 A State approved asbestos training course in accordance with 29 CFR 1926.1101 (k), (either initial training or 12 month refresher).

Managers and supervisors must have completed an offsite training course for asbestos supervisor of at least 40 hours, meeting the requirements 29 CFR 1926.1101 (L).

A written certificate of training is on file for each employee and supervisor requiring training.

Site Specific Training: Site specific training shall be provided to each employee before beginning work on site. Personnel will be briefed by the SSHO as to the potential hazards to be encountered. Topics will include:

- Availability of this Plan.
- General site hazards and specific hazards in the work areas including those attributable to the contaminants and/or hazards present.
- Selection, use, testing and care of the body, eye, ear hand, foot, and respiratory protective equipment to be worn, with the limitations of each.
- Decontamination procedures for personnel, their personal protective equipment and other equipment used on the site.
- Emergency response procedures and requirements.
- Emergency alarm systems and other forms of notification, and evacuation routes to be followed.

Methods to obtain emergency assistance and medical attention.

#### **EMERGENCY RESPONSE AND SAFETY PLAN**

In the event of an emergency, all employees shall be notified to exit the work area immediately. Appropriate authorities and the control room will be immediately notified of the nature and extent of the emergency. See Attachment for nearest clinic and/or Emergency Hospital directions (attach map and written directions).

The table below shows Emergency Response Telephone Numbers. This table will be maintained at the work site by the SSHO.

EMERGENCY RESPONSE TELEPHON NUMBERS	
FIRE DEPARTMENT	911
POLICE DEPARTMENT	911
AMBULANCE	911

Should someone be transported to a hospital or doctor, a copy of this Health and Safety Plan must accompany them.

#### **EMERGENCY RESPONSIBILITIES**

The SSHO (or designee) will be responsible for responding to all emergencies. The SSHO will: (1) Notify appropriate individuals authorities and/or health care facilities of the potentially hazardous activities and potential wastes that may develop as a result of the investigation; (2) Have working knowledge of safety equipment available at the site; and (3) Ensure that a map which details the most direct route to the nearest medical clinic is prominently posted with the emergency telephone numbers.

Employees who will respond to emergency situations involving hazardous materials shall be trained in how to respond to such emergencies. The Project Foreman will ensure that the following safety equipment is available at the site: eyewash station, first aid supplies, and fire extinguishers. The emergency response plan will be reviewed daily to ensure its applicability for the planned day's operation.

#### **ACCIDENTS and INJURIES**

In the event of a safety or health emergency at the site, appropriate emergency measures will immediately be taken to assist those who have been injured or exposed and to protect others from hazards. Personnel trained in first aid procedures will be present during site activities to provide appropriate treatment of injuries or illnesses occurring during operations.

In the event of a safety or health emergency at the site, the SSHO will immediately notify AES and the W.A. Rasic Safety and Health Coordinator. Upon notifications of an exposure incident, the SSHO will contract

the appropriate emergency response personnel, who will, according to the seriousness of the accident, provide recommended medical diagnosis and, if necessary, treatment.

The Project Manager and Project Foreman/SSHO will be immediately informed of any injuries or incidents. The Project Foreman/SSHO will investigate facility/site conditions to determine the cause of the incident and the means to be taken to prevent the incident from recurring.

An incident report form will be filled out and filed with the employee's medical and safety records to serve as documentation of the incident and the actions taken.

#### **SITE COMMUNICATIONS**

In case of emergency, site personnel should evacuate to the designated safe refuge location, both For their own personal safety and prevent hampering response/rescue efforts as designated by AES. Unless changed by the Project Manager, the command center will be used as the safe refuge. In the case of an evacuation, the Project Foreman/SSHO will account for all personnel and communicate this information to AES. A log of all individuals entering and leaving the site will be kept so that everyone can be accounted for in an emergency.

#### **EMERGENCY RESPONSE**

In case of emergency, site personnel should evacuate to the designated safe refuge location, both for their own personal safety and prevent hampering response/rescue efforts as designated by AES. Unless changed by the Project Manager, the command center will be used as the safe refuge. In the case of an evacuation, the Project Foreman/SSHO will account for all personnel and communicate this information to AES. A log of all individuals entering and leaving the site will be kept so that everyone can be accounted for in an emergency.

In the event of an emergency, the Project Foreman/SSHO will direct all notification, response and follow up actions. Contact with any outside response personnel (ambulance, fire department, etc.), will be done at the discretion of the SSHO and with the coordination through AES, again with the individuals trained in first aid procedures. If an individual is transported to a hospital or a doctor, a copy of this HASP must accompany the individual.

Follow up activities must be completed before on site work is resumed following an emergency. All used emergency equipment must be recharged, refilled, or replaced. Government agencies must be notified as appropriate. An investigation of the incident must be conducted as soon as possible. The resulting report must be accurate, objective, complete and authenticated. (signed and dated).

#### MEDICAL/FIRST AID RESPONSE

Trained personnel competent in such matters will only provide on-site medical and/or first aid response to an injury or illness. The SSHO is responsible for directing these actions and contracting the appropriate off-site response personnel (paramedics, etc.). The designated health and first aid clinic for this project will be Fountain Valley Emergency Hospital located at 17100 Euclid St. Fountain Valley, CA 92708. Phone Number is 714-966-7200

#### FIRE FIGHTING PROCEDURES

A fire extinguisher, intended for small fires, will be available on each operating piece of equipment and in the Project Foreman's (or his designee's) vehicle during all site activities. When the fire cannot be controlled with the extinguisher, the area should be evacuated immediately. The SSHO (or designee) will determine the time to contact fire department and response personnel.

#### **EMERGENCY EQUIPMENT**

On-site equipment for safety and emergency response shall be maintained, as follows:

- Eye Wash Station (wash bottles at a minimum)
- Extra Copy of the Health and Safety Plan

These will be located on site in the command post or with the project foreman and/or the SSHO.

#### SPECIAL PRICAUTIONS- HEAT STRESS/COLD INJURY PROTECTION PROGRAM

Formal training in prevention of heat and/or cold injuries will be provided as part of the site-specific training. Informal review of these techniques will be made as part of daily pre work briefings. Any person who experiences signs of heat related distress would be instructed to stop working immediately. Medical attention will be sought if there is any doubt that prompt and full recovery will result without it. Symptoms of heat related distress includes muscle cramps, pale and clammy or hot, dry flushed skin, confusion, disorientation and incoherent speech, nausea and/or convulsions.

#### **CONSTRUCTION MATERIALS and SITE REFUSE**

All construction materials and site refuse will be contained in the specified appropriate areas. Site personnel should make certain that trash, plastic sheeting, filters, rags, vacuum bags, PPE, etc., are not scattered throughout the area of activity and that trash and contaminated materials are immediately and properly packaged and labeled.

#### **ADDITIONAL SAFETY PRACTICES**

The following are important safety precautions that will be enforced during this work:

- There will be no eating, drinking, or smoking in the work area or staging areas.
- Medicine and alcohol can mask the effect from exposure to certain compounds. Personnel
  involved on project must not consume controlled substances or alcohol. Consumption of
  prescribed drugs must be at the direction of a physician familiar with the person's work.
- An adequately stocked first aid kit will be on-scene at all times during operational hours.
- Contact with potentially contaminated surfaces should be avoided whenever possible.
- Half Face respirators (if used) in use will be inspected daily by the SSHO.
- Cartridges for respirators in use will be changed daily at a minimum.
- No excessive facial hair that interferes with the effectiveness of a respirator will be permitted
  on personnel required to wear respiratory protection equipment. The respirator must seal
  against the face so that the wearer receives air only through the air purifying cartridges.
  attached to the respirator use to ensure that a proper seal is obtained by the wearer
- Unsafe equipment left unattended will be identified by a "DANGER, DO NOT OPERATE" tag.
- Legible and understandable precautionary labels shall be prominently affixed to containers of waste debris, and contaminated clothing.

#### **DAILY LOG CONTENTS**

The Project Manager and the SSHO will establish a log in/out system appropriate to the site, that will record, at a minimum, the following information: Personnel on the site, their arrival and departure times and their destination on the site; Incidents and unusual activities that occur on the site such as, but not limited *to*, accidents, spills, breaches of security, injuries, equipment failures and weather related problems; Conversations that may affect the work as: (1) Media Visits, (2) Safety and Health Inspections by SSHO and external agencies, (3) Owner/Agent Meetings and (4) Employee Meetings; Changes to the results (if applicable); Personnel in PPE and times of PPE in contamination zone.

# Directions and Map to Clinic (ATTACHMENT A)

# 15 min (6.4 miles)



via Harbor Blvd, Victoria St and Hamilton Ave 13 min without traffic

#### Family Care Centers Medical Group Inc.

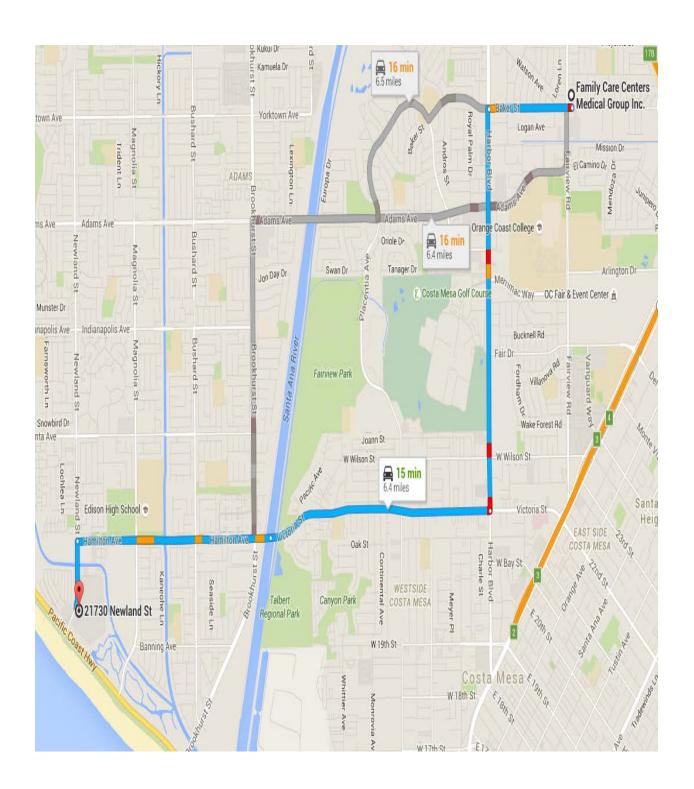
1190 Baker Street #100, Costa Mesa, CA 92626

1	Head west on Baker St toward Fairview Rd
	0.7 mi ———————————————————————————————————
₽	Use the left 2 lanes to turn left onto Harbor Blvd
	1.9 mi
₽	Turn right onto Victoria St
	1.9 mi ———————————————————————————————————
t	Continue onto Hamilton Ave
	1.6 mi ———————————————————————————————————
4	Turn left onto Newland St
	Destination will be on the left
	0.3 mi

#### 21730 Newland St

Huntington Beach, CA 92646

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.



# Directions and Map to Clinic (ATTACHMENT B)

# 16 min (7.2 miles)







via Newland St and Talbert Ave

14 min without traffic

# 21730 Newland St

Huntington Beach, CA 92646

↑ Head northeast on Newland St toward Edison Drive
3.8 mi

Turn right onto Talbert Ave
2.5 mi

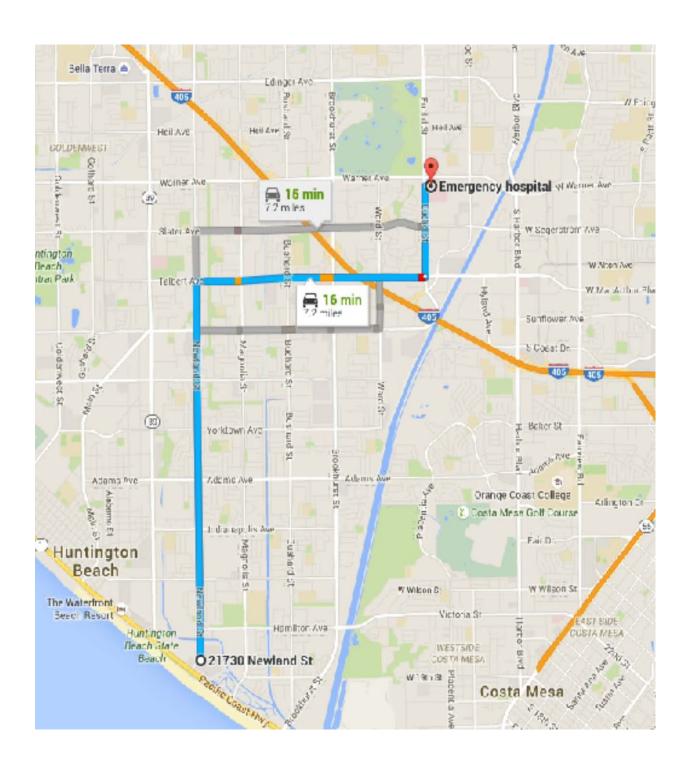
Use the left 2 lanes to turn left onto Euclid St

# **Emergency hospital**

0.9 mi -

17100 Euclid Street, Fountain Valley, CA 92708

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.





Name of Business AES Huntington Beach						
Address 21730 Newland Street, Huntington Beach, 92426						
Facility Phone (714) 374 - 1400						
Types of Work or Hazardous Substances Used: Crude Oil						
Spill Prevention The following are general requirements for any hazardous substances stored or used at this facility.						
<ul> <li>General Requirements</li> <li>Ensure all hazardous substances are properly labeled.</li> <li>Store, dispense, and/or use hazardous substances in a way that prevents releases.</li> <li>Provide secondary containment when storing hazardous substances in bulk quantities (~55 g).</li> <li>Maintain good housekeeping practices for all chemical materials at the facility.</li> <li>Routine/Daily checks in the hazardous substance storage area to be performed by <a href="Jack Quick">Jack Quick</a>, <a href="Marcelino Corrales">Marcelino Corrales</a></li> <li>Monthly inspections of the hazardous substance storage area, secondary containment, and annular space (interior cavity of double wall tank) on any Above-ground Storage Tanks (AST) or Underground Storage Tanks (UST) need to be logged in this plan. See Appendix A - Inspection Log.</li> </ul>						
Facility Specific Requirements  •  •						
Spill Containment  The general spill response procedure at this facility is to stop the source of the spill, contain any spilled material and clean up the spill in a timely manner to prevent accidental injury or other damage.  Small spills will be contained by site personnel if they are able to do so without risking injury. Spill kits are located at the following location(s).  W.A. Rasic Vehicles / K Vac Environmental Services Emergency Response Trailer						



## **Emergency Procedures:**

- Immediately call **911** in the event of injury, fire or potential fire, or spill of a hazardous substance that gives rise to an emergency situation.
- If a spill has occurred, contact the following persons immediately:

Jack Quick	_ (Primary)	( <u>310</u> ) <u>864</u> - <u>0154</u>
Marcelino Corrales	_ (Secondary)	(310) <u>864</u> <u>0310</u>
Gene DeTinne	_ (After Hours Emergency Contact)	( <u>310) 864</u> <u>0001</u>

- In the event of a large spill, a properly trained employee should:
  - Assess the area for any immediate dangers to health or safety (i.e. a wrecked car on fire). If any dangers are present, move away from the area, call 911.
  - Notify the primary and/or secondary contact from the list above and then continue your spill
    response. The primary contact should assess additional notification requirements below.
  - Retrieve the spill kit from the closest location.
  - Assess the size of the leak and any immediate threat of the spill reaching the floor/storm drains
    or permeable surfaces in the area. If there is an immediate threat and there are no safety
    concerns, then attempt to block the spill from coming in contact with the floor/storm drain or
    permeable surface. If no drain covers are available, then try to use absorbent and/or sock
    booms or rags to stop the spill from getting into the drains or to any permeable surfaces.
  - If the spill can be contained with absorbent booms, deploy them around the spill. Use the booms to direct the spill away from any immediate hazards (i.e. a wrecked car).
  - If there is no immediate threat to the floor/storm drains or permeable surfaces, or after controlling the spill, try to plug or stop the leak, if possible. If applicable, put on protective gear (gloves, goggles, protective clothing, etc.) and plug the leak.
  - Once the spill has been contained and any immediate threat to storm drains or permeable surfaces has been minimized, contact the spill cleanup contractor and dispatch them to clean up the spill or commence spill cleanup procedures.

Spill cleanup for large spills should be handled by the Spill Cleanup Contractor

Company Name K Vac Environmental Services \_ 24-Hour Phone (800) 397 - 9904

# **Spill Reporting**

If a hazardous substances exceeding reportable quantities or if any amount has been released to soil, surface water, or storm drains, notify the following agencies:

National Response Center	(800) 424-8802
CAL OES State Warning Center	(800) 852-7550
Unified Program Agency (UPS)	(911)
Fire Department	(911)



# **Hazardous Substance Inventory**

Major Groups Only

Hazardous Substance	Manufacturer	Quantity/Unit of Issue
Crude Oil		,



## **Plan Management**

The primary contact or designee shall administer this plan and will be responsible for updating and including any required documentation.

## **Training**

All personnel who may respond to any spill, need to be trained on the contents and procedures in this plan. Trained personnel will add their names and dates of training to the Training Log (see Appendix D). Only persons trained on this plan shall respond to a spill. If you are not trained and witness a spill, call or notify the primary and secondary contacts listed on Page 2 of this plan.

## **Spill Tracking**

Any spills must be entered into the Spill Log (see Appendix C). If a large catastrophic spill occurs, attach additional pages to describe the event. Include known or possible causes, areas affected, and effectiveness of the cleanup. Include a review of the cleanup contractor and their procedures. For small spills, it is sufficient to fill out the Spill Log, and to take measures to prevent a repeat occurrence.

## **Facility Inspections**

Routine inspections will be conducted daily during regular business hours. Daily inspections will include, at a minimum, a visual inspection of the hazardous substances containers and the area immediately adjacent to it for signs of a spill or leak. These inspections do not need to be logged unless a spill or leak is detected. Ideally, these inspections will be conducted by a manager or by regular employees.

Full site inspections will be conducted monthly by the primary contact or designee and, at a minimum, will include those items on the inspection form in Appendix B. If any item on the inspection form is found unacceptable, the inspection form will be attached to this plan. If all items are deemed acceptable; it is sufficient for the inspector to log only the inspection and the results in the Inspection Log (Appendix A).



# **Appendix A - Inspection Log**

A = Acceptable U = Unacceptable If any items are unacceptable attach Inspection Form with details.

Inspection	Year	Inspector	Lids and	Evidence Of Spille?	Alarms	New Draduct?	Spill Kit	Storm	Items
Month		Initials	Labels?	Of Spills?	or Sensor?	Product?	Complete?	Drains?	Fixed?
					Selisoi :				
January									+
February									+
March									
April									-
May									+
June									+
July									+
August									+
September									+
October									1
November									1
December									1
									1
January									1
February									
March									
April									
May									
June									
July									
August									
September									
October									
November									
December									
January									
February									
March									
April									
May									
June									
July									
August									
September									
October									
November									
December									
									1



# **Appendix B Inspection Form**

Acceptable	Unacceptab	nie
		Lids and Labels?  Have all lids and caps been returned to their proper place?  Do all the containers still have labels?
		Evidence of Spills?  Is there any indication that a spill might have occurred? If so, was the spi properly cleaned up? Was there any spill kit materials used? Was the Spill Log filled out for that incident? Any housekeeping issues?
		For Tanks with alarm systems only Any Alarms or Sensor issues?  Have there been any alarm conditions in the past month? If alarms have occurred, has the monitoring system been serviced by the manufacturer or an authorized service company? Is the system up and working at this time? Is the sensor working? Did you conduct a test of the alarm and the sensor? When was the last time the sensor was serviced?
		New Hazardous Substances?  Have any new chemical products been purchased? Do you have the MSDS for new products? Have you assessed how to store and handle this new product safely? Have you added the new hazardous substance to the inventory sheet in this plan? Is the container properly labeled?
		Spill Kit Complete?  Have any items been used from the spill kit? If items are missing, is there an associated entry in the Spill Log? Are there any items missing that are currently on order? Is the spill kit stored where it is supposed to be stored? Is there a sufficient supply of daily cleanup materials?
		Storm Drains?  Is there a buildup of sediment in the drain traps? Is there any evidence of drain clogging? Are the drain filters still intact? Any need replacing? Have they been replaced?
		Items Fixed? Have all deficiencies previously noted been fixed or made acceptable?
List any issue	es, deficiencies	s, or failures in detail:



# Appendix C – Spill Log

Date of Spill	Location of Spill	Size of Spill (~ gal)	Prevention Measures Taken?	Spill Kit Materials Reordered?	Was the Spill Kit Adequate? (List any deficiencies, i.e. missing equipment, etc.)



Date of Spill	Location of Spill	Size of Spill (~ gal)	Prevention Measures Taken?	Spill Kit Materials Reordered?	Was the Spill Kit Adequate? (List any deficiencies, i.e. missing equipment, etc.)



# **Appendix D – Training Log**

Employee's Printed Name	Signature	Date Completed



Hot Tapping and Cut-out Procedures

July 2016 Issue: Rev 01

### **Introduction**

AES North America Development, LLC.

This scope of work has been developed in order to determine the existence of and to remove identified residual materials from approximately 1,339 linear feet of (2) 10" insulated pipeline and 950 linear feet of 12" and 20" insulated pipeline.

### **Project Schedule Overview**

Project Target Dates: July 25 - September 13, 2016

### **Pipeline Details**

- 1,339 linear feet of 10" line with 7 individual hot tap locations.
- 1,339 linear feet of 10" line with 7 individual hot tap locations.
- 950 linear feet of 12" line with 5 individual hot tap locations.
- 950 linear feet of 20" line with 5 individual hot tap locations.

#### **General Requirements**

- All personnel shall wear Nomex Fire Retardant Clothing (FRC) while on this project.
- W.A. Rasic (WAR) shall perform all work in accordance with included WAR Safety Rules and Regulations.
- WAR shall supply the necessary equipment and materials to support the project.
   Equipment shall include, but is not limited to PPE, small hand tools, road safety equipment, etc.
- WAR shall assure a spotter guides all vehicles as they back up while on job site.
- WAR to have calibrated LEL Monitor to measure atmosphere quality, bump test each day.
- WAR to have fire extinguishers located at work site with fire watch personnel assigned
  while any hot work is being performed. Fire watch will be maintained for at least a half
  hour after completion of welding or cutting operations to detect and extinguish possible
  smoldering fires.
- WAR shall provide the following and shall be hot water washed. All vacuum trucks shall use appropriate fittings and connections prior to start:
  - 1 70 bbl. capacity vacuum truck for evacuation of product and venting.
  - 1 Hazwopper trained driver.
- WAR shall furnish and install appropriate grounding/bonding wires to ensure that the equipment is properly grounded.
- WAR shall furnish and apply sheets of plastic (6 mil thick minimum), metal containers (drip pans) and absorbent pads beneath all related piping, flanges, valves, fittings and any other area that may be subject to leaks. (Per Spill Prevention Plan)
- WAR shall comply with good housekeeping requirements. Job site must be kept neat at all times.
- WAR shall conduct "Pre-Job Safety Orientation Meeting" with all respective personnel prior to beginning work.
- WAR to abide by all SCAQMD rule 1166 & 1149 policies.



Hot Tapping and Cut-out Procedures

July 2016 Issue: Rev 01

#### <u>Safety</u>

- Known or unknown underground utilities in the area:
  - Utilize the one-call system to ensure work impacting other utilities onsite is properly marked out.
- Excavating adjacent to 3rd Party pipelines:
  - o Ensure 3rd Party Owners are notified of work being completed.
- Site conditions and potential impacts due to weather (heat/cold, rain, wind):
  - Perform periodic visual review of work site and other personnel to assess evolving site conditions for safety.
- Hazards associated with potential of asbestos in old coating:
  - Identify coating type prior to removal to confirm the presence of asbestos per provided report by AES. Use appropriate PPE and follow WAR policies and procedures for the proper handling of asbestos coated pipe.
- Limited roadway access due to narrow access road:
  - Pre-plan all large vehicles entering and exiting project site to prevent congestion to project area.
- Fire, explosion, or inhalation of vapors during tie-in activities:
  - Follow WAR policies and procedures regarding confined space, vapor monitoring requirements, and fire watch. Monitor any changes that may occur due to weather conditions and mitigate as appropriate.
- Hazards associated with lifting and moving the pipe, such as crushing, pinching, load falling, etc.:
  - Ensure spotters are used when utilizing large equipment and verify tag lines are used when moving pipe.

### Pipe Prep and Install Tapping Fitting

- · Hold Safety Meeting to discuss following work steps and dangers.
- WAR to coordinate LOTO with AES representative.
- WAR to set up containment (i.e. plastic, drip pans, grounding/bonding wires and absorbent pads beneath all piping)
- WAR to remove approximately 5' of non-asbestos insulation/ coating and prepare pipe for tapping fitting. (Insulation/ coating will be placed in standard waste bin)
- WAR to place mechanical tapping saddle on line with a 2" 3000# ball valve attached.
   (Closed position)

### Performing Hot Tap & Degassing

- WAR to set up containment (i.e. plastic, drip pans, grounding/bonding wires and absorbent pads beneath all piping)
- WAR to set up and position Vacuum truck.
- WAR to set up carbon filter vapor control unit on vacuum truck exhaust. (to assist with de-gassing pipeline)
- WAR to attach appropriate grounding/bonding wires to ensure that the equipment is properly grounded.



Hot Tapping and Cut-out Procedures

July 2016 Issue: Rev 01

### **Performing Hot Tap & Degassing (Continued)**

- WAR to install Tapping Machine on Mechanical Tapping saddle.
- WAR to confirm placement of all containment and vacuum truck readiness.
- WAR to begin tapping pipeline utilizing the pneumatic drive tapping tool at half speed (to keep friction heat to a minimum).
- After pipeline is tapped the bit shall be withdrawn and the 2" 3000# ball valve will be closed and tapping machine will be removed. Then a vacuum truck will be attached to the tapped pipeline.
- Degassing, venting and depressurizing of the line will now proceed utilizing a Vacuum truck with a carbon filter system until no pressure is left on this section of the line.
- WAR will then check for VOCs per the SCAQMD procedure, the test will last for at least 1 hour.
- If any residual product is found in line, WAR will pull a sample to be tested for analytics to classify product for future disposal.

### **Drain Down**

- WAR to set up containment (i.e. plastic, drip pans, grounding/bonding wires and absorbent pads beneath all piping)
- Attach appropriate grounding/bonding wires to ensure that the equipment is properly grounded.
- Once the line has been depressurized, the vacuum truck will now vacuum out all liquids present at location.
- WAR to utilize a stinger attachment to the vacuum truck through the 2" Tap to remove remaining product if any.
- WAR to confirm pipe section is empty of product using a dip stick through the 2" Tap.

### **Pipe Cut-Out**

- WAR to set up containment (i.e. plastic, drip pans, grounding/bonding wires and absorbent pads beneath all piping)
- Use vapor monitors to verify that the area atmosphere is safe for work.
- Ensure the 3 foot section of pipe to be removed is properly rigged to lifting equipment.
- Attach grounding cables to each end of pipe to be cut.
- Use drip pans and train mat to control any remaining product drainage.
- Have vacuum truck ready to vacuum drip pans.
- Place hand cold cutter on pipe and start the cold cutting process.
- The crew will now make two cold-cuts on the line at either side of the Tap location, removing a 3' section of pipe containing the mechanical saddle and tap, bag it up with visqueen and place it in the appropriate lined bin for eventual off-site disposal.
- Additional liquid residual material will be vacuumed out of the existing pipeline as necessary.
- WAR to install "Plumbers Plugs" with vent into pipe (upstream/downstream).



Hot Tapping and Cut-out Procedures

July 2016 Issue: Rev 01

### **Hot Work / Weld Plates**

- WAR to set up containment (i.e. plastic, drip pans, grounding/bonding wires and absorbent pads beneath all piping)
- Obtain Safety permit for Hot Work from AES representative.
- WAR to have calibrated LEL Monitor to measure atmosphere quality, bump test each day.
- WAR to have fire extinguishers located at work site with fire watch personnel assigned
  while any hot work is being performed. Fire watch will be maintained for at least a half
  hour after completion of welding or cutting operations to detect and extinguish possible
  smoldering fires.
- WAR to attach hose to vent on "Plumbers Plug" that is long enough to carry any
  flammable vapors a safe distance downwind from the welding site and maintain a "vent
  watch" to monitor for unsafe conditions.
- WAR to remove "Plumbers Plug" from pipeline (upstream/downstream).
- WAR to install dry ice or bentonite in each end of existing pipe both upstream and downstream.
- WAR to install plates to be welded onto the open end of the pipes, effectively sealing and securing the pipeline in sections in preparation for eventual removal of the entire identified line
- WAR to maintain Fire watch during all hot work.
- After all work is complete use vapor monitors to verify that the area atmosphere is safe.

### Waste Disposal

- Any and all residual liquids captured will be tested for analytics and then manifested to be delivered to the designated facility depending on classification.
- Lined Bins will be used for containment during the cleaning of the cold-cut pipe sections, any liquids in the lined bins will be removed via Vacuum Trucks and disposed of following the above mentioned protocol.
- The cleaned sections of pipe will be disposed of in a standard metal recycling bin.

### <u>Demobilization / Project Close Out</u>

- Demobilization and project close-out will commence once the lines are secure and all materials and bins are removed from the job site.
- All documentation concerning permitting or residual waste material disposal will be delivered to the Project Team at this time.





23 May 2016 File No. 41971-002

State Water Resources Control Board 1001 I Street Sacramento, CA 95814

Attention: Stormwater Section

Subject: Construction Stormwater Pollution Prevention Plan for Huntington Beach Energy

Project AES Limited Notice to Proceed Construction Activities

Huntington Beach, California

### Dear Stormwater Section:

In compliance with State Water Resources Control Board (SWRCB) Order No. 2009-0009-DWQ as amended by Order 2010-0014-DWQ "National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities" (Construction General Permit), Haley & Aldrich, Inc. (Haley & Aldrich), on behalf of AES Huntington Beach Energy Project (AES), has prepared this Stormwater Pollution Prevention Plan (SWPPP) related to Huntington Beach Energy Project (HBEP) AES Limited Notice to Proceed (LNTP) construction activities at the AES – Huntington Beach Facility (Site), 21730 Newland Street, Huntington Beach, California.

Permit registration documents (PRDs), including the Notice of Intent to comply with the Construction General Permit (NoI) and this SWPPP, will be uploaded to the SWRCB's online Stormwater Multi-Application Reporting and Tracking System (SMARTS). An annual fee will be sent to the SWRCB under separate cover. It is anticipated that a waste discharge identification (WDID) number for the project will be issued by the SWRCB upon receipt of the annual fee and NoI, and upon verifying upload of the PRDs. This SWPPP will be updated to include the WDID number as soon as it is received.





Sincerely yours, HALEY & ALDRICH, INC.

Tom Burton, PG, QSD/P

Senior Technical Specialist- Stormwater

Thomas of But

### **Enclosures**

c: AES; Attn: Tracy Powell

AES; Attn: Josh Wynia

Haley & Aldrich, Inc.; Attn: Kathy Hubbard

 $G: \verb|\41971_AES| 002\_HB\ Construction\ SWPPP| 2016\_0523\_HAI\_AES\_HBEP\_SWPPP\_text\_F. docx$ 





CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN FOR AES SOUTHLAND HUNTINGTON BEACH LIMITED NOTICE TO PROCEED ACTIVITES, HUNTINGTON BEACH CALIFORNIA

By

Haley & Aldrich, Inc. Costa Mesa, California

For

**AES Huntington Beach LLC Huntington Beach, California** 

File No. 41971-002 23 May 2016

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		N – Construction General Permit	
APPE	INDIX (	O – Construction General Permit Glossary & Acronyms	



# **Qualified SWPPP Developer**

Approval and Certification of the Sto	rmwater Pollution Preven	tion Plan
Project Name:	HBEP AES Limited Not	tice to Proceed Construction Activities
Project Number/ID	41971-002	WDID #
requirements of the California Cons	truction General Permit (	re prepared under my direction to meet the (SWRCB Orders No. 2009-009-DWQ a fied SWPPP Developer in good standing a
Thomas of Bu	8	5/23/2016
QSD Signature		Date
Thomas J. Burton, P.G. <i>QSD Name</i>		21120 QSD Certificate Number
Senior Technical Specialist- Storn Title and Affiliation	nwater	(619) 285-7117 Telephone Number
tburton@haleyaldrich.com  Email	. <u> </u>	Haley & Aldrich, Inc.

# **Legally Responsible Person**

Approval and Certification of	the Stormwater Pollution	n Prevention Plan
Project Name: HBEP AES LNTP Construction Activities		TTP Construction Activities
Project Number/ID	41971-002	WDID #
supervision in accordance we evaluate the information subnithose persons directly respon information submitted is, tru	ith a system designed t nitted. Based on my inqu sible for gathering the in e, accurate, and comple	d all Attachments were prepared under my direction or o assure that qualified personnel properly gather and airy of the person or persons who manage the system or formation, to the best of my knowledge and belief, the etc. I am aware that there are significant penalties for of fine and imprisonment for knowing violations."
Josl	nua Wynia	
Legally Re	esponsible Person	
	sponsible Person or App ignatory	roved Date
	oonsible Person or Appro	oved Telephone Number



# **Amendment Log**

Project Name:	HBEP AES LNTP Construction Activities	
Project Number/ID	41971-002 WDID#	

Amendment No.	Date	Brief Description of Amendment, include section and page number	Prepared and Approved By
			Name: QSD#
			Name: QSD#
			Name: QSD#
			Name: QSD#
			Name: QSD#
			Name: QSD#
			Name: QSD#
			Name: QSD#
			Name: QSD#



### 1. SWPPP REQUIREMENTS

### 1.1 Introduction

AES is seeking approval of the California Energy Commission (CEC) on the Conditions of Certification (COC) associated with Limited Notice to Proceed (LNTP) construction activities at the AES Southland – Huntington Beach Facility at 21730 Newland Street in Huntington Beach, California (Facility or Site). The Facility is located on 51 total acres, a portion of which includes the project area (approximately 9.7 acres). The project area location is shown on the Site Maps in Appendix A.

This Stormwater Pollution Prevention Plan (SWPPP) was prepared to comply with California's General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities (General Permit or CGP) Order No. 2009-0009-DWQ as amended by Order No. 2010-0014-DWQ (NPDES No. CAS000002) issued by the State Water Resources Control Board (State Water Board). This SWPPP has been prepared following the SWPPP Template provided on the California Stormwater Quality Association Stormwater *Best Management Practice Handbook Portal: Construction* (CASQA, 2010). In accordance with the General Permit, Section XIV, this SWPPP is designed to address the following:

- Pollutants and their sources, including sources of sediment associated with construction, construction site erosion and other activities associated with construction activity are controlled;
- Where not otherwise required to be under a Regional Water Quality Control Board (Regional Water Board) permit, all non-stormwater discharges are identified and either eliminated, controlled, or treated;
- Ensure that Site Best Management Practices (BMPs) are effective and result in the reduction or elimination of pollutants in stormwater discharges and authorized non-stormwater discharges from construction activity to the Best Available Technology/Best Control Technology (BAT/BCT) standard;

Calculations for design details and BMP controls are included in Appendix B.

### 1.2 Permit Registration Documents

Required project-specific Permit Registration Documents (PRDs) shall be submitted to the State Water Board via the Stormwater Multiple Application and Report Tracking System (SMARTS) by the Legally Responsible Person (LRP), or authorized personnel (i.e., Approved Signatory) under the direction of the LRP. These PRDs include:

- 1. Notice of Intent (NoI) to comply with the General Permit;
- 2. Risk Assessment (Construction Site Sediment and Receiving Water Risk Determination);
- 3. Site Map(s);



- 4. Annual Fee:
- 5. Signed Certification Statement (LRP Certification is provided electronically with SMARTS PRD submittal); and
- 6. SWPPP.

Site Maps are included in Appendix A and copies of the submitted PRDs are in Appendix C along with the Waste Discharge Identification (WDID) confirmation.

## 1.3 SWPPP Availability and Implementation

The discharger shall make this SWPPP available at the construction site during working hours (see Section 7.5 of CSMP for working hours) while construction is occurring and shall make it available upon request by a State or Municipal inspector. When the original SWPPP is retained by a crewmember in a construction vehicle and is not currently at the construction site, current copies of the BMPs and map/drawing will be left with the field crew and the original SWPPP shall be made available via a request by radio/telephone (CGP Section XIV.C).

This SWPPP will be implemented concurrently with the start of ground disturbing activities.

### 1.4 SWPPP Amendments

The SWPPP shall be revised if:

- There is a General Permit violation;
- There is a reduction or increase in total disturbed acreage (CGP Section II, Part C); or
- BMPs do not meet the objectives of reducing or eliminating pollutants in stormwater discharges.

Additionally, the SWPPP shall be amended when:

- There is a change in construction or operations which may affect the discharge of pollutants to surface waters, groundwater(s), or a municipal separate storm sewer system (MS4);
- There is a change in the project duration that changes the project risk level; or
- When deemed necessary by the Qualified SWPPP Developer (QSD). The QSD has determined that the changes listed in Table 1.1 can be field determined by the Qualified SWPPP Practitioner (QSP). All other changes shall be made by the QSD as formal amendments to the SWPPP.

The following items shall be included in each amendment:

- Who requested the amendment;
- The location of proposed change;



- The reason for change;
- The original BMP proposed, if any; and
- The new BMP proposed.

Amendments shall be logged at the front of the SWPPP and certification kept in Appendix D. The SWPPP text shall be revised replaced, and/or hand annotated as necessary to properly convey the amendment. SWPPP amendments must be made by a QSD. The following changes have been designated by the QSD as "to be field determined" and constitute minor changes that the QSP may implement based on field conditions.

Table 1.1 List of Changes to be Field Determined (expand or reduce as necessary)

Candidate changes for field location or determination by QSP <sup>(1)</sup>	Check changes that can be field located or field determined by QSP	
Increase quantity of an Erosion or Sediment Control Measure	X	
Relocate/Add stockpiles or stored materials	X	
Relocate or add toilets	X	
Relocate vehicle storage and/or fueling locations	X	
Relocate areas for waste storage	X	
Relocate water storage and/or water transfer location	X	
Changes to access points (entrance/exits)	X	
Change type of Erosion or Sediment Control Measure	X	
Changes to location of erosion or sediment control	X	
Minor changes to schedule or phases	X	
Changes in construction materials	X	
(1) Any field changes not identified for field location or field determination by QSP must be approved by QSD		

### 1.5 Retention of Records

Paper or electronic records of the following documents required by this SWPPP shall be retained for a minimum of three years from the date generated or date submitted, whichever is later:

- Notice of Intent with PRDs;
- Notice of Termination; and
- SWPPP

These records shall be available at the Site until construction is complete. Records assisting in the determination of compliance with the General Permit shall be made available within a



reasonable time, to the Regional Water Board, State Water Board or U.S. Environmental Protection Agency (EPA) upon request. The discharger shall adhere to requests by the Regional Water Board for retention of records for a period longer than three years.

### 1.6 Required Non-Compliance Reporting

Stormwater discharged off-Site during the project shall be monitored. If a discharge violation should occur for some reason, the QSP will immediately notify the LRP and the LRP will file a violation report electronically to the Regional Water Board, using SMARTS, within 30 days of identification of non-compliance. Corrective measures will be implemented immediately following the discharge or written notice of non-compliance from the Regional Water Board.

Discharges and corrective actions will be documented on the NAL/NEL Exceedance Site Evaluation Report Form in CSMP Attachment 3 "Example Forms." The report to the LRP and to the Regional Water Board will contain the following items:

- The date, time, location, nature of operation and type of unauthorized discharge;
- The cause or nature of the notice or order:
- The control measures (BMPs) deployed before the discharge event, or prior to receiving notice or order; and
- The date of deployment and type of control measures (BMPs) deployed after the discharge event, or after receiving the notice or order, including additional measures installed or planned to reduce or prevent re-occurrence.

## 1.7 Annual Report

The General Permit requires that permittees prepare, certify, and electronically submit an Annual Report no later than September 1<sup>st</sup> of each year. Reporting requirements are identified in Section XVI of the General Permit. Annual reports shall be filed in SMARTS and in accordance with information required by the on-line forms.

### 1.8 Changes to Permit Coverage

The General Permit allows for the reduction or increase of the total acreage covered under the General Permit when:

- A portion of the project is complete and/or conditions for termination of coverage have been met;
- Ownership of a portion of the project is purchased by a different entity; or
- New acreage is added to the project.

Modified PRDs shall be filed electronically within 30 days of a reduction or increase in total disturbed area if a change in permit covered acreage is to be sought. The SWPPP shall be amended appropriately by logging the modification at the front of the SWPPP. Certification of



SWPPP amendments will be saved in Appendix D. Copies of updated PRDs submitted electronically via SMARTS will be saved in Appendix E.

### 1.9 Notice of Termination

A Notice of Termination (NoT) shall be submitted electronically by the LRP via SMARTS to terminate coverage under the General Permit. The NoT shall include final Site Map(s) and representative photographs of the project site that demonstrate final stabilization has been achieved. The NoT shall be submitted within 90 days of completion of construction. The Regional Water Board will consider a construction site complete when the conditions of Section II.D of the General Permit have been met.



### 2. PROJECT INFORMATION

### 2.1 Project and Site Description

### 2.1.1 Site Description

As shown on the Site Maps included in Appendix A, the Facility is located on approximately 51 acres and the project area comprises approximately 9.7 acres within the eastern portion. The project area includes the following structures:

- Two fuel oil ASTs within earthen containment berms,
- Fuel oil pipelines, ancillary equipment, and a pump station;
- Unit 5 Peaker Building;
- Compressor building; and
- Maintenance and storage building.

The LNTP activities include lead and asbestos abatement of structures, demolition of existing structures and earthen berms within the project area and surface grading.

### Chemical Storage and Use

The retention basin is used to collect and store non-hazardous wastewater from the station. The wastewater, containing minor amounts of oil, grease, and suspended solids, is systematically mixed with spent cooling water and discharged to the Pacific Ocean under the provisions of an NPDES permit. Historically, metals such as nickel and vanadium were concentrated in the acidic wash solutions and temporarily stored in the BCCB. The use of hydrochloric acid for boiler cleaning was discontinued in 1998 and the BCCB was placed out of service. During boiler chemical cleaning operations, the BCCB was used to temporarily hold (for less than 30 days) acidic cleaning solutions containing the removed corrosion and mineral deposits from the boiler tubes. The acidic waste material was removed from the basins using a vacuum truck and carried to an off-site disposal facility.

Polynuclear aromatic hydrocarbons (PAHs), dioxins, and petroleum hydrocarbons (TPH) may be found in the residue from burning fuel oil. TPH could potentially be released from sources such as lubricating oil leaks from the units. The use of fuel oil at the Huntington Beach Facility was discontinued in the 1970s. The collection areas for sediments or liquids that could potentially contain PAHs, dioxins, and TPH are the sumps, separators and/or sediment traps, also known as appurtenances, which are commonly used at generating stations to remove sediment and sludge before they enter retention basins.

### 2.1.2 Existing Conditions

The Facility is situated on a coastal lowland area referred to as the Santa Ana Gap that is a portion of the Orange County Coastal Plain between Newport Mesa and Huntington Beach



Mesa. The Facility was constructed in low-lying, level marshland behind a sand beach barrier. Magnolia Marsh is located immediately southeast and adjacent to the Facility (Woodward-Clyde, 1986). The Facility is relatively flat and has little vegetation with the exception of the perimeter. Most of the Facility and project area are paved with asphalt or concrete, or covered with gravel; the remainder is covered with vegetation.

The southwestern project area boundary is approximately 600 feet northeast of the Pacific Ocean shoreline, within Huntington Beach State Park. The coastal salt marsh located to the southeast of the site is an Orange County protected wetland resource and is referenced as the Huntington Beach Wetlands. The coastline in the region of the site runs northwest-southeast. The Huntington Beach Flood Control Channel runs east-west approximately 200 feet to the north of the Facility and runs northwest-southeast approximately 30 feet to the northeast of the northeastern corner of the Facility. Talbert Flood Control Channel runs north-south approximately 2,600 feet east of the Facility. The Santa Ana River is approximately 6,500 feet east of the Facility.

The climatologic regime around the station is xeric, consisting of warm dry summers with rainfall in winter and early spring. The mean annual precipitation at the station, calculated from data collected at the four closest rainfall gauges is 11.14 inches (Woodward-Clyde, 1986). The station lies 1.5 miles northwest of the mouth of the Santa Ana River and is within 2,000 feet of the ocean shoreline. Normal daily fluctuations between high and low tides at the Santa Ana River entrance are about 3 to 4 feet. Coastal currents are influenced by a combination of tide, wind, thermal structure, and local bathymetry.

The Huntington Beach Channel, a concrete-lined drainage channel, passes just north of the station (north of Edison Avenue) and forms the eastern border of the station's tank farm. The channel generally flows northwest to southeast and joins (or becomes) the Talbert Channel approximately one-quarter mile east of the station. The Talbert channel flows to the south toward the mouth of the Santa Ana River (Woodward-Clyde, 1986).

### 2.1.3 Existing Drainage

Existing site topography, drainage patterns, and stormwater conveyance systems are shown on the Site Maps in Appendix A. The Facility is at an elevation of 6 to 10 feet above mean sea level, and is surrounded by 5- to 11-foot high earthen berms along the perimeter of the property. Most precipitation that falls on the paved portions of the Facility is collected by yard drains and conveyed through a network of on-site pipelines to the onsite retention basin.

Water from the retention basin discharges to the Pacific Ocean (receiving water) under a NPDES permit. A portion of precipitation falling on the paved portions of the backyard is collected at a low point and is then pumped to the yard drains during rain events. Precipitation that falls in the fuel oil tank farm areas is contained within secondary containment and is not discharged to the receiving water, but infiltrates or evaporates.

### 2.1.4 Geology and Groundwater



The Facility is underlain by near-coastal alluvium deposited by the Santa Ana River. These recent sediments range from 150 to 180 feet thick. Recent deposition in the Santa Ana Gap has taken place on a tidally-influenced flood plain on which alluvial deposits interfinger with lagoonal marsh and beach deposits. Subsurface investigation at the Facility has indicated that sandy silt and clay deposits occur from the surface to depths up to 15 feet below ground surface (bgs; Woodward-Clyde, 1986).

The Facility lies in the western area of the Orange County Groundwater Basin. Western Orange County is underlain by important aquifers that supply water for agricultural and urban needs. Overdraft (withdrawal in excess of replenishment) has historically allowed sea water intrusion into the fresh water basin. The Talbert Aquifer underlies the Facility to depths of 180 feet. The aquifer is in hydraulic continuity with the permeable upper Pleistocene strata (San Pedro Formation). Aquifer sands from near surface (e.g., 15 feet) to depths of 70 feet are under water-table conditions as indicated by site stratigraphy and water-table elevations (Woodward-Clyde, 1986).

The regional groundwater gradient measured near the Facility in August 1985 was inland at 1.7 feet per mile or 0.0003 feet per foot. Other OCWD records indicate the gradient has been measured at up to 0.0006 feet per foot in the seaward direction (Woodward-Clyde, 1986).

From soil tests performed for the Hydrogeologic Assessment Report (Woodward Clyde, 1986), the hydraulic conductivity was determined to be  $3.17 \times 10^{-2}$  centimeters/second. The porosity of the material below the basins was determined to be 0.45. The flow velocity below the basins was calculated to be  $2.8 \times 10^{-4}$  centimeters/second or  $0.9 \times 1.3$  feet/day.

A network of approximately 25 groundwater monitoring wells has been installed at the Facility since the 1990s as part of several subsurface investigations, pursuant to Title 22 CCR 66265.98. Detected contaminants of concern have included volatile organic compounds (VOCs), metals, and inorganic constituents such as ammonia. Since December 1999, PAHs and dioxins have been analyzed in groundwater samples collected annually in the retention basin area, but were not detected. Three of the wells are located in the project area: MW-2, MW-4, and MW-5.

### 2.1.5 Project Description

The Huntingdon Beach Energy Project scope of work activities will include the following:

- Asbestos and lead survey;
- Asbestos and lead abatement;
- Soil sampling and Human Health Risk Assessment (HHRA);
- Construction screening fence installation;
- Cleaning, capping, and removal of abandoned fuel oil pipelines (includes asbestos removal);



- Demolition of structures (Unit #5 Peaker and Compressor Buildings, ASTs and Ancillary Equipment);
- Soil remediation if required; and
- Excavation and stockpiling of soil containment berms.

The California Energy Commission (CEC) issued draft Conditions of Certification to AES for these LNTP activities in October 2014. This SWPPP includes BMP recommendations for only these LNTP project activities, and do not include environmental activities, development or construction of new facilities within the project area.

## Asbestos and Lead Survey

This survey will include non-destructive testing of buildings and equipment identified for demolition for the presence of asbestos, lead, polychlorinated biphenyls, and naturally occurring radioactive materials. The survey will also include evaluation for the presence of other hazardous materials and universal waste. A Work Plan will be developed for abatement activities based on sampling results. Asbestos, Lead and Universal Waste surveys will be conducted at the Maintenance Storage Building, Unit 5 Peaker Building, Compressor Building, Large and Small Fuel Oil ASTs, and for the insulating covering of the Fuel Oil Pipelines.

## Asbestos and Lead Abatement

Abatement of identified contaminants will be performed based on the results of the Lead and Asbestos Survey and the Work Plan. The abatement will be performed on the buildings found to contain contaminants during the survey. The Work Plan will provide the approach for abatement activities and also identify presence, location and approximate quantity of contaminants.

### Soil Sampling and Human Health Risk Assessment (HHRA)

Areas identified for demotion and/or excavation (including grading and compacting) will have soils sampled and analyzed to develop Owner scope worker exposure and industrial reuse requirements. Based on the sample results a soil management plan will be developed for excavated materials. This soil management plan will identify on-site use, treatment, or disposal options for excavated materials.

### Owner Scope Screening Fence

An owner scope screening fence will be installed to minimize the adverse visual impacts of project owner scope as it applies to the LNTP, and as specified in the CEC's Condition of Certification VIS-3: Long-Term Owner scope Screening, Landscape Protection, and Site Restoration Plan – Project Demolition, Owner scope, and Commissioning.

### Clean, Cap, Remove Abandoned Fuel Oil Pipelines (includes asbestos removal)

This task includes the abandoned fuel delivery system which consists of the identified AST, pumps and ancillary equipment, and conveyance pipelines. The conveyance pipelines will be



cleaned to a level that allows recycling, demolition (cut and capped), and removed from the site for recycling. Asbestos present on pipelines will be abated, and residual oil in pipelines will be captured in a manner that will allow recycling or disposal. Pipelines included in this scope item are shown on the Site Maps included in Appendix A.

Any residual liquids observed in the pipelines after cutting will be removed using a vacuum truck. Any remaining residue will be removed using a hydro-washing technique. If this occurs, water will be contained on site and disposed in accordance with state and local environmental rules and regulations. Residual cleaning will occur in the designated equipment laydown area shown on Site Maps in Appendix A.

### **Demolition of Structures**

The following structures will be demolished, processed onsite, and disposed offsite:

- Unit #5 Peaker building;
- 2-Aboveground Fuel Oil Storage Tank;
- Compressor buildings; and
- Ancillary equipment.
- Abandoned Fuel Oil Pipelines

Equipment to be used during demolition activities will include cranes, trucks, and a backhoe.

## Excavation and Stockpiling of Containment Berms:

The existing berms around the Fuel Oil ASTs will be excavated and stockpiled in an adjacent area. Excavation activities will also address stormwater runoff, dust control, and stockpile management.

### Waste Management

No chemicals are anticipated to be stored onsite during the project activities. Fueling for large construction equipment will be performed by delivery service Dion & Sons.

Waste lead and asbestos generated during abatement activities will be double-bagged and placed in roll-off bins in accordance with South Coast Air Quality Management District Rule 1403.

Wastes generated during demolition and excavation activities, including contaminated soil, will be segregated and stored utilizing several containment approaches including placement in one of several roll-off bins to be located in a containment area near the Compressor building. A Conex box may also be used for storing drums of non-hazardous and hazardous wastes generated during the project. Pipeline sections will either be recycled or disposed of in accordance with State regulatory requirements.



### 2.1.6 Developed Condition

Post excavation surface drainage will be similar to pre-excavation drainage, directed as sheet flow toward yard drains which drain to the retention basin in the southern portion of the Facility. Post excavation drainage patterns and conveyance systems are presented on Site Maps in Appendix A.

**Table 2.1** Construction Site Estimates

Construction site area	9.7	acres
Percent impervious before construction	40	%
Runoff coefficient before construction	0.45	
Percent impervious after construction	40	%
Runoff coefficient after construction	0.4	

### 2.2 Permits and Governing Documents

In addition to the General Permit, the following documents have been taken into account while preparing this SWPPP:

- Regional Water Board requirements
- Basin Plan requirements
- Contract Documents
- South Coast Air Quality Management District Regulations and Permits

### 2.3 Stormwater Run-On from Offsite Areas

As shown on the Site Maps in Appendix A, the project area receives no run-on.

# 2.4 Findings of the Construction Site Sediment and Receiving Water Risk Determination

A construction site risk assessment has been performed and the resultant risk level for the project is Risk Level 2.

The risk level was determined though calculation of the R-factor using an erosivity index zone map, an isoerodent map of California, and regional K and length-slope values. The risk level is based on project duration, location, proximity to impaired receiving waters and soil conditions. A copy of the Risk Level determination submitted on SMARTS with the PRDs is included in Appendix C.



Table 2.2 and Table 2.3 summarize the sediment and receiving water risk factors and document the sources of information used to derive the factors.

Table 2.2 Summary of Sediment Risk

RUSLE Factor	Value	Method for establishing value	
R	30	Erosivity Index (EI) Zone Map, Isoerodent map of California, and EI table	
K*LS	0.6	Average soil erodibility and length-slope factors	
<b>Total Predicted Sediment Loss (tons/acre)</b>		18	
Overall Sediment Risk  Low Sediment Risk < 15 tons/ acre  Medium Sediment Risk >= 15 and < 75 tons/acre  High Sediment Risk >= 75 tons/acre		☐ Low X Medium ☐ High	

Table 2.3 Summary of Receiving Water Risk

Receiving Water Name	303(d) Listed for Sediment Related Pollutant <sup>(1)</sup>	TMDL for Sediment Related Pollutant <sup>(1)</sup>	Beneficial Uses of COLD, SPAWN, and MIGRATORY <sup>(1)</sup>
Pacific Ocean	Yes X No	Yes X No	Yes X No
Overall Receiving Water Risk			X Low High
(1) If yes is selected for any option, the Receiving Water Risk is High			

Risk Level 2 sites are subject to the narrative effluent limitations specified in the General Permit. The narrative effluent limitations require stormwater discharges associated with construction activity to minimize or prevent pollutants in stormwater and authorized non-stormwater through the use of controls, structures, and best management practices. This SWPPP has been prepared to address Risk Level 2 requirements (General Permit Attachment C).



### 2.5 Demolition and Excavation Schedule

The site sediment risk was determined based on activities taking place between approximately May 1, 2016 and 1 May 1, 2017. Modification or extension of the schedule (start and end dates) may affect risk determination and permit requirements. The LRP shall contact the QSD if the schedule changes during demolition and construction to address potential impact to the SWPPP. The estimated schedule for planned work and project milestones are included in Appendix F.

### 2.6 Potential Activity and Pollutant Sources

Appendix G includes a list of activities and associated materials that are anticipated to be used onsite. These activities and associated materials will or could potentially contribute pollutants, other than sediment, to stormwater runoff.

The anticipated activities and associated pollutants are used in Section 3 to select the Best Management Practices for the project. Locations of anticipated pollutants and associated BMPs are shown on the Site Maps in Appendix A.

For a full and complete list of onsite pollutants, refer to the Material Safety Data Sheets (MSDS) that are retained onsite at the construction trailer.

### 2.7 Identification of Non-Stormwater Discharges

Non-stormwater discharges consist of discharges which do not originate from precipitation events. The General Permit provides allowances for specified non-stormwater discharges that do not cause erosion or carry other pollutants.

Non-stormwater discharges into storm drainage systems or waterways that are not authorized under the General Permit and listed in the SWPPP, or authorized under a separate NPDES permit, are prohibited.

There are no expected Authorized Non-stormwater discharges from this project site. If the QSP determines that authorized non-stormwater discharges do occur, they will be managed with the stormwater and non-stormwater BMPs described in Section 3 of this SWPPP and will be minimized by the QSP.

Activities at this site that may result in unauthorized non-stormwater discharges include:

- Use of portable toilets;
- Use of dust suppression water from an on-site source or storage of water from an off-Site source; or
- Use of gasoline or diesel-powered generators for water pumps, etc.
- Pipeline rinsing



The QSP will notify the pollution prevention team lead and the LRP following an inspection that non-stormwater discharges are present. The QSP will recommend BMPs and steps will be taken to ensure that unauthorized discharges are eliminated, controlled, disposed, or treated on-site, including implementation of appropriate BMPs. Discharges of construction materials and wastes such as fuel or paint resulting from dumping, spills, or direct contact with rainwater or stormwater runoff are also prohibited.

## 2.8 Required Site Map Information

The construction project's Site Maps showing the project location, surface water boundaries, geographic features, construction site perimeter, general topography and other requirements identified in Attachment B of the General Permit is located in Appendix A. Table 2.4 identifies figure numbers where required elements are illustrated.

**Table 2.4 Required Map Information** 

Map/Plan Sheet No. (1)	Required Element
Figure 1	The project's surrounding area (vicinity)
Figure 2	Site layout
Figures 3-4	Construction site boundaries
Figure 5	Drainage areas
Figure 3	Discharge locations
Figure 4	Sampling locations
Figure 4	Areas of soil disturbance (temporary or permanent)
Figure 4	Active areas of soil disturbance
Figure 4	Locations of runoff BMPs
Figure 4	Locations of erosion control BMPs
Figure 4	Locations of sediment control BMPs
Not applicable	Active Treatment System location (if applicable)
Figure 2	Locations of sensitive habitats, watercourses, or other features which are not to be disturbed
Figure 4	Locations of all post construction BMPs
Figure 4	Waste storage areas (stockpiles)
Figure 4	Vehicle storage areas
Figure 4	Material storage areas
Figure 4	Entrance and Exits



**Table 2.4 Required Map Information** 

Map/Plan Sheet No. (1)	Required Element
Figure 4	Fueling Locations

Notes: (1) Indicate maps or drawings that information is included on (e.g., Vicinity Map, Site Map, Drainage Plans, Grading Plans, Progress Maps, etc.)



#### 3. BEST MANAGEMENT PRACTICES

Several Conditions of Certification issued to AES by the CEC for the LNTP activities described herein specify BMPs that in some cases overlap with those described in this SWPPP. The BMPs recommended in this SWPPP may, in some cases, differ from those required by specific Conditions of Certification and are not intended to replace them.

# 3.1 Schedule for BMP Implementation

**Table 3.1 BMP Implementation Schedule** 

	BMP	Implementation	Duration
ion	EC-1 Scheduling	Prior to construction	Entirety of project
<b>Erosion</b> <b>Control</b>	EC-2 Preservation of Existing Vegetation	Start of construction	Entirety of project
rol	SE-5 Fiber Rolls	Start of construction	Entirety of project
Sediment Control	SE-6 Gravel Bag Berms rolled in plastic	Start of construction	Entirety of project
imen	SE-7 Street Sweeping	Start of construction	Entirety of project
Sed	SE-10 Storm Drain Inlet Protection	Start of construction	Entirety of project
Tracking Control	TC-1 Stabilized Construction Entrance and Exit	Start of construction	Entirety of project
Tra Co	TC-3 Entrance Outlet Tire Wash	Start of construction	Entirety of project
Wind Erosion	WE-1 Wind Erosion Control	During excavation/ stockpiling	Entirety of project

#### 3.2 Erosion and Sediment Control

Erosion and sediment controls are required by the General Permit to provide effective reduction or elimination of sediment related pollutants in stormwater discharges and authorized non-stormwater discharges from the Site. Applicable BMPs are identified in this section for erosion control, sediment control, tracking control, and wind erosion control.



#### 3.2.1 Erosion Control

Erosion control, also referred to as soil stabilization, consists of source control measures that are designed to prevent soil particles from detaching and becoming transported in stormwater runoff. Erosion control BMPs protects the soil surface by covering and/or binding soil particles.

This construction project will implement the following practices to provide effective temporary and final erosion control during construction:

- 1. Preserve existing vegetation where required and when feasible.
- 2. The area of soil-disturbing operations shall be controlled such that the Contractor is able to implement erosion control BMPs quickly and effectively.
- 3. Stabilize non-active areas within 14 days of cessation of construction activities or sooner if stipulated by local requirements.
- 4. Control erosion in concentrated flow paths by applying erosion control blankets, check dams, erosion control seeding or alternate methods.
- 5. Prior to the completion of construction, apply permanent erosion control to remaining disturbed soil areas.

Sufficient erosion control materials shall be maintained onsite to allow implementation in conformance with this SWPPP.

The following temporary erosion control BMP selection table indicates the BMPs that shall be implemented to control erosion on the construction site. Fact Sheets for temporary erosion control BMPs are provided in Appendix H.

Table 3.2 Temporary Erosion Control BMPs (see Appendix H)

CASQ		Meets a Minimum	BMP Used		
A Fact Sheet	Fact BMP Name Requirement		NO	If not used, state reason	
EC-1	Scheduling	✓	X		
EC-2	Preservation of Existing Vegetation	✓	X		
EC-3	Hydraulic Mulch	<b>√</b> (2)		X	Not required for stabilization prior to repaying disturbed areas
EC-4	Hydroseed	<b>√</b> (2)		X	Not required for stabilization prior to repaying disturbed areas
EC-5	Soil Binders	<b>✓</b> (2)		X	Flat surface topography
EC-6	Straw Mulch	<b>√</b> (2)		X	Flat surface topography
EC-7	Geotextiles and Mats	<b>√</b> (2)		X	Flat surface topography
EC-8	Wood Mulching	<b>√</b> (2)		X	Flat surface topography
EC-9	Earth Dike and Drainage Swales	<b>√</b> (3)		X	Flat surface topography
EC-10	Velocity Dissipation			X	Flat surface topography



Table 3.2 Temporary Erosion Control BMPs (see Appendix H)

CASQ		Meets a Minimum	BMP Used		
A Fact Sheet	act   BMP Name   Requirement		NO	If not used, state reason	
	Devices				
EC-11	Slope Drains			X	No streams in project area
EC-12	Stream Bank Stabilization			X	No streams in project area
EC-14	Compost Blankets	<b>√</b> (2)		X	Flat surface topography
EC-15	Soil Preparation- Roughening		X		
EC-16	Non-Vegetated Stabilization	<b>√</b> (2)	X		
WE-1	Wind Erosion Control	<b>✓</b>	X		
Alternate BMPs Used:					If used, state reason:

<sup>(1)</sup> Applicability to a specific project shall be determined by the QSD.

These temporary erosion control BMPs shall be implemented in conformance with the following guidelines and as outlined in the BMP Factsheets provided in Appendix H. If there is a conflict between documents, the Site Map will prevail over narrative in the body of the SWPPP or guidance in the BMP Fact Sheets. Site-specific details in the Site Map prevail over standard details included in the Site Map. The narrative in the body of the SWPPP prevails over guidance in the BMP Fact Sheets.

#### Scheduling

Construction activities will be sequenced to minimize the amount and duration of disturbed soil areas exposed to erosion by wind, rain, runoff and vehicle tracking; and to complete major soil disturbance activities prior to the local rainy season.

# Preservation of Existing Vegetation

Where required and where feasible, areas of soil with existing shrubs or grasses will be preserved using engineering controls such as pre-determined construction vehicle traffic areas to minimize disturbance.



<sup>&</sup>lt;sup>(2)</sup> The QSD shall ensure implementation of one of the minimum measures listed or a combination thereof to achieve and maintain the Risk Level requirements.

<sup>(3)</sup> Run-on from offsite shall be directed away from all disturbed areas, diversion of offsite flows may require design/analysis by a licensed civil engineer and/or additional environmental permitting

# Wind Erosion Control

During excavation, stockpiling and backfilling activities, excavation, stockpile and truck traffic areas will be wetted to control dust and minimize wind erosion.

#### 3.2.2 Sediment Control

Sediment controls are temporary or permanent structural measures that are intended to complement the selected erosion control measures and reduce sediment discharges from active construction areas. Sediment controls are designed to intercept and settle out soil particles that have been detached and transported by the force of water.

The following sediment control BMP selection table indicates the BMPs that shall be implemented to control sediment on the construction site. Fact Sheets for temporary sediment control BMPs are provided in Appendix H.

Table 3.3 Temporary Sediment Control BMPs (see Appendix H)

CAS QA		Meets a Minimum	BMP	used	
Fact Sheet	BMP Name	Requireme nt <sup>(1)</sup>	YES	NO	If not used, state reason
SE-1	Silt Fence	<b>√</b> (2) (3)		X	Soil berm exists at site perimeter
SE-2	Sediment Basin			X	Site already contains sediment basin
SE-3	Sediment Trap			X	Not required or necessary
SE-4	Check Dams			X	No streams in project area
SE-5	Fiber Rolls/ Straw wattles	<b>√</b> (2)(3)	X		
SE-6	Gravel Bag Berm	<b>√</b> (3)	X		
SE-7	Street Sweeping	✓	X		
SE-8	Sandbag Barrier		X		
SE-9	Straw Bale Barrier			X	Not required or necessary
SE-10	Storm Drain Inlet Protection	✓ RL2&3	X		
SE-11	ATS			X	Not required or necessary
SE-12	Temporary Silt Dike			X	Not required or necessary
SE-13	Compost Sock and Berm	<b>√</b> (3)		X	Not required or necessary
SE-14	Biofilter Bags	<b>√</b> (3)		X	Not required or necessary
TC-1	Stabilized Construction Entrance and Exit	✓	X		
TC-2	Stabilized Construction Roadway			X	Not required or necessary
TC-3	Entrance Outlet Tire Wash		X		
Alterna	Alternate BMPs Used:				If used, state reason:

<sup>(1)</sup> Applicability to a specific project shall be determined by the QSD



<sup>(2)</sup> The QSD shall ensure implementation of one of the minimum measures listed or a combination thereof to

Table 3.3 Temporary Sediment Control BMPs (see Appendix H)

CAS QA	BMP Name	Meets a Minimum	BMP	used	If not used, state reason
Fact Sheet	DIVIT I WINC	Requireme nt <sup>(1)</sup>	YES	NO	Triot ascay state reason

achieve and maintain the Risk Level requirements

These temporary sediment control BMPs shall be implemented in conformance with the following guidelines and in accordance with the BMP Fact Sheets provided in Appendix H. If there is a conflict between documents, the Site Map will prevail over narrative in the body of the SWPPP or guidance in the BMP Fact Sheets. Site specific details in the Site Map prevail over standard details included in the Site Map. The narrative in the body of the SWPPP prevails over guidance in the BMP Fact Sheets.

#### Fiber Rolls

Fiber rolls or straw wattles may be used along graded contour intervals of disturbed soil areas, if deemed necessary.

# **Gravel Bag Berms**

These will be used around soil stockpiles and material and equipment laydown/staging areas to prevent contact with stormwater run-on and contain/reduce run-off, and may be used around several yard drains in the project area. Gravel bags will be rolled in plastic sheeting and the rolls placed around the areas.

# Street Sweeping

Street sweeping will be used to remove tracked sediment from disturbed soil areas on roadways both within the project area and around the construction site entrance/exit.

#### Sandbag Barrier

Sandbag barriers may be used as perimeter controls within disturbed soil areas, if deemed appropriate, and as run-on diversion structures on paved surfaces.

#### Storm Drain Inlet Protection

The two yard drains within the project area will be protected from potential discharges using appropriate materials for the structures (filter fabric, inserts, etc.).



<sup>(3)</sup>Risk Level 2 &3 shall provide linear sediment control along toe of slope, face of slope, and at the grade breaks of exposed slope

## Stabilized Construction Entrance and Exit/ Entrance Outlet Tire Wash

In conjunction with street sweeping, the project site entrance/exit may need to be stabilized to reduce the tracking of soil onto public roads by construction vehicles. An outlet tire wash will be placed at the construction entrance/exit to remove sediment from construction vehicle tires and under carriages prior to exit onto public roadways.

# 3.3 Non-Stormwater Controls and Waste and Materials Management

#### 3.3.1 Non-Stormwater Controls

Non-stormwater discharges into storm drainage systems or waterways, which are not authorized under the General Permit, are prohibited. Non-stormwater discharges for which a separate NPDES permit is required by the local Regional Water Board are prohibited unless coverage under the separate NPDES permit has been obtained for the discharge. The selection of non-stormwater BMPs is based on the list of construction activities with a potential for non-stormwater discharges identified in Section 2.7 of this SWPPP.

The following non-stormwater control BMP selection table indicates the BMPs that shall be implemented to control sediment on the construction site. Fact Sheets for temporary non-stormwater control BMPs are provided in Appendix H.

Table 3.4 Temporary Non-Stormwater BMPs (see Appendix H)

CASQA	CASQA Fact Sheet  BMP Name  Meets a Minimum Requirement (1)		BMP	used	
		YES	NO	If not used, state reason	
NS-1	Water Conservation Practices	✓	X		
NS-2	Dewatering Operation			X	Not part of scope
NS-3	Paving and Grinding Operation			X	Not part of scope
NS-4	Temporary Stream Crossing			X	Not part of scope
NS-5	Clear Water Diversion			X	Not part of scope
NS-6	Illicit Connection- Illegal Discharge Connection	✓	X		Such connections are not anticipated within project site.
NS-7	Potable Water Irrigation Discharge Detection		X		
NS-8	Vehicle and Equipment Cleaning	<b>✓</b>	X		
NS-9	Vehicle and Equipment Fueling	✓	X		
NS-10	Vehicle and Equipment Maintenance	✓	X		



Table 3.4 Temporary Non-Stormwater BMPs (see Appendix H)

CASQA	BMP Name	Meets a Minimum	BMP used		
Fact Sheet		Requirement	YES	NO	If not used, state reason
NS-11	Pile Driving Operation			X	Not part of scope
NS-12	Concrete Curing			X	Not part of scope
NS-13	Concrete Finishing			X	Not part of scope
NS-14	Material and Equipment Use Over Water			X	Not part of scope
NS-15	Demolition Removal Adjacent to Water		X		
NS-16	Temporary Batch Plants			X	Not part of scope
Alternate BMPs Used:			If use	d, state	reason:
(1) Applicab	oility to a specific project shall be	e determined by	the QSI	)	

Non-stormwater BMPs shall be implemented in conformance with the following guidelines and in accordance with the BMP Fact Sheets provided in Appendix H. If there is a conflict between documents, the Site Map will prevail over narrative in the body of the SWPPP or guidance in the BMP Fact Sheets. Site specific details in the Site Map prevail over standard details included in the Site Map. The narrative in the body of the SWPPP prevails over guidance in the BMP Fact Sheets.

See Appendix H for descriptions of temporary non-stormwater BMPs.

## 3.3.2 Materials Management and Waste Management

Materials management control practices consist of implementing procedural and structural BMPs for handling, storing and using construction materials to prevent the release of those materials into stormwater discharges. The amount and type of construction materials to be used at the Site will depend upon the type of construction and the length of the construction period. The materials may be used continuously, such as fuel for vehicles and equipment, or the materials may be used for a discrete period, such as soil binders for temporary stabilization.

Waste management consist of implementing procedural and structural BMPs for handling, storing and ensuring proper disposal of wastes to prevent the release of those wastes into stormwater discharges.

Materials and waste management pollution control BMPs shall be implemented to minimize stormwater contact with construction materials, wastes and service areas; and to prevent



materials and wastes from being discharged off-site. The primary mechanisms for stormwater contact that shall be addressed include:

- Direct contact with precipitation;
- Contact with stormwater run-on and runoff;
- Wind dispersion of loose materials;
- Direct discharge to the storm drain system through spills or dumping; and
- Extended contact with some materials and wastes, such as asphalt cold mix and treated wood products, which can leach pollutants into stormwater.

A list of construction activities is provided in Appendix G. The following Materials and Waste Management BMP selection table indicates the BMPs that shall be implemented to handle materials and control construction site wastes associated with these construction activities. Fact Sheets for Materials and Waste Management BMPs are provided in Appendix H.

Table 3.5 Temporary Materials Management BMPs (see Appendix H)

CASQA	DMD M	Meets a	BMP used		
Fact Sheet			YES	NO	If not used, state reason
WM-01	Material Delivery and Storage	✓	X		
WM-02	Material Use	✓	X		
WM-03	Stockpile Mgmt	✓	X		
WM-04	Spill Prevention and Control	✓	X		
WM-05	Solid Waste Mgmt	✓	X		
WM-06	Hazardous Waste Mgmt	✓	X		
WM-07	Contaminated Soil Mgmt		X		
WM-08	Concrete Waste Mgmt	✓	X		
WM-09	Sanitary-Septic Waste Mgmt	✓	X		
WM-10	Liquid Waste Mgmt		X		
Alternate	Alternate BMPs Used:			If use	d, state reason:

(1) Applicability to a specific project shall be determined by the QSD.

Materials management BMPs shall be implemented in general conformance with the BMP Fact Sheets provided in Appendix H. If there is a conflict between documents, the Site-specific details in the Site Map will prevail over narrative in the body of this SWPPP or guidance in the



BMP Fact Sheets. The Conditions of Certification prevail over the narrative in the body of this SWPPP.

See Appendix H for descriptions of Materials Management BMPs checked in Table 3.5 above.

# 3.4 Post-Excavation Stormwater Management Measures

Post excavation BMPs are permanent measures installed during construction, designed to reduce or eliminate pollutant discharges from the site after construction is completed.

This site is located in an area subject to a Phase I or Phase II Municipal Separate Storm Sewer System (MS4) permit-approved Stormwater Management Plan. X Yes No

Post project runoff reduction requirements will be satisfied through the MS4 program, therefore this project is exempt from provision XIII A of the General Permit.



## 4. BMP INSPECTION, MAINTENANCE AND RAIN EVENT ACTION PLANS

# 4.1 BMP Inspection and Maintenance

The General Permit requires routine weekly inspections of BMPs, along with inspections before, during, and after qualifying rain events. A BMP inspection checklist must be filled out for inspections and maintained on-site with the SWPPP. The inspection checklist includes the necessary information covered in Section 7.6. A blank inspection checklist is included in Appendix I. Completed checklists shall be kept in Construction Site Monitoring Plan (CSMP) Attachment 2 "Monitoring Records".

BMPs shall be maintained regularly to ensure proper and effective functionality. If necessary, corrective actions shall be implemented within 72 hours of identified deficiencies and associated amendments to the SWPPP shall be prepared by the QSD.

Specific details for maintenance, inspection, and repair of Construction Site BMPs can be found in the BMP Fact Sheets in Appendix H.

#### 4.2 Rain Event Action Plans

The Rain Event Action Plan (REAP) is a written document designed to be used as a planning tool by the QSP to protect exposed portions of project sites and to ensure that the discharger has adequate materials, staff, and time to implement erosion and sediment control measures. These measures are intended to reduce the amount of sediment and other pollutants that could be generated during the rain event. It is the responsibility of the QSP to be aware of precipitation forecast and to obtain and print copies of forecasted precipitation from NOAA's National Weather Service Forecast Office.

This SWPPP includes a REAP template but the QSP will need to customize it for each rain event. A Site-specific REAP template to use for each applicable project phase is included in Appendix J. The QSP shall maintain a paper copy of completed REAPs in compliance with the record retention requirements Section 1.5 of this SWPPP. Completed REAPs shall be maintained in Appendix J.

The QSP will develop an event-specific REAP 48 hours in advance of a precipitation event forecast to have a 50% or greater chance of producing precipitation in the project area. The REAP will be onsite and be implemented 24 hours in advance of any the predicted precipitation event.

The REAP will include the following minimum site- and project phase-specific information:

- 1. Site Address;
- 2. Calculated Risk Level (2);



- 3. Site Stormwater Manager Information including the name, company and 24-hour emergency telephone number;
- 4. Erosion and Sediment Control Provider information including the name, company and 24-hour emergency telephone number;
- 5. Stormwater Sampling Agent information including the name, company, and 24-hour emergency telephone number;
- 6. Activities associated with each construction phase;
- 7. Trades active on the construction site during each construction phase;
- 8. Trade contractor information; and
- 9. Recommended actions for each project phase.



#### 5. TRAINING

The QSPs identified for the project are listed in Appendix L. Each person responsible for implementation of this SWPPP must be trained annually. Periodic training of job-site personnel may be used to satisfy the training requirements. Training can be included as part of routine project meetings (e.g. daily/weekly tailgate safety meetings) to promote stormwater management awareness specific for this project, or task-specific training as needed.

The QSP shall be responsible for providing this information at the meetings, and subsequently completing the training logs included in Appendix K that identify the site-specific stormwater topics covered and names of site personnel who attended the meeting. Tasks may be delegated to employees trained by the QSP, provided adequate supervision and oversight are provided. Training shall correspond to the specific task delegated, including:

- SWPPP implementation;
- BMP inspection and maintenance;
- Monitoring; and
- Record keeping.

Hard copy documentation of training activities (formal and informal) will be retained in Appendix K of the field copy of this SWPPP.



#### 6. RESPONSIBLE PARTIES AND OPERATORS

#### 6.1 Responsible Parties

Approved Signatories who are responsible for SWPPP implementation and have authority to sign permit-related documents are listed below. Written authorizations from the LRP for these individuals are provided in Appendix L. The Approved Signatories assigned to this project are:

Name	Title	Phone Number
Josh Wynia	Project Manager	562-493-7788

QSPs identified for the project are also identified in Appendix L. The QSP shall have primary responsibility and significant authority for the implementation, maintenance and inspection/monitoring of SWPPP requirements. The QSP shall make the SWPPP available at the construction site during working hours while construction is occurring, and upon request by a State or Municipal inspector throughout the duration of the project. Duties of the QSP include but are not limited to:

- Implementing elements of the General Permit and SWPPP, including but not limited to:
  - Ensuring all BMPs are implemented, inspected, and properly maintained;
  - Performing non-stormwater and stormwater visual observations and inspections;
  - Performing non-stormwater and storm sampling and analysis, as required;
  - Performing routine inspections and observations;
  - Ensure Records are maintained
  - Implementing non-stormwater management and materials and waste management activities such as: monitoring discharges; general Site clean-up; vehicle and equipment cleaning, fueling and maintenance; spill control; ensuring that no materials other than stormwater are discharged in quantities which will have an adverse effect on receiving waters or storm drain systems; etc.;
- The QSP may delegate these inspections and activities to an appropriately trained employee, but shall ensure adequacy and adequate deployment.
- Ensuring elimination of unauthorized discharges.
- The QSPs shall be assigned authority by the LRP to mobilize crews in order to make immediate repairs to the control measures.
- Coordinate with the Contractor(s) to ensure that necessary corrections/repairs are made immediately and that the project complies with the SWPPP, the General Permit and approved plans at all times.
- Notifying the LRP or Authorized Signatory immediately of off-site discharges or other non-compliance events.



## **6.2** Contractor List

A list of contractors and subcontractors is included in Appendix M. These include the following:

- Argus Contracting of Santa Fe Springs, California (asbestos and lead survey/abatement);
   and
- Ninyo & Moore of Irvine, California (Soil Survey, Risk Assessment); and
- Kiewit, PM Environmental of Long Beach, CA



#### 7. CONSTRUCTION SITE MONITORING PROGRAM

# 7.1 Purpose

This Construction Site Monitoring Program was developed to address the following objectives:

- 1. To demonstrate that the site is in compliance with the Discharge Prohibitions of the Construction General Permit;
- 2. To determine whether non-visible pollutants are present at the construction site and are causing or contributing to exceedances of water quality objectives;
- 3. To determine whether immediate corrective actions, additional BMP implementation, or SWPPP revisions are necessary to reduce pollutants in stormwater discharges and authorized non-stormwater discharges;
- 4. To determine whether BMPs included in the SWPPP are effective in preventing or reducing pollutants in stormwater discharges and authorized non-stormwater discharges.

## 7.2 Applicability of Permit Requirements

This project has been determined to be a Risk Level 2 project. The General Permit identifies the following types of monitoring as being applicable for a Risk Level 2 project:

- Visual inspections of BMPs;
- Visual monitoring of the site related to qualifying storm events;
- Visual monitoring of the site for non-stormwater discharges;
- Sampling and analysis of construction site runoff for non-visible pollutants when applicable; and
- Sampling and analysis of construction site runoff as required by the Regional Water Board when applicable.

# 7.3 Weather and Rain Event Tracking

Visual monitoring and inspections requirements of the General Permit are triggered by a qualifying rain event. The General Permit defines a qualifying rain event as any event that produces one-half inch of precipitation. A minimum of 48 hours of dry weather will be used to distinguish between separate qualifying storm events.

# 7.3.1 Weather Tracking

The QSP should consult the National Oceanographic and Atmospheric Administration (NOAA) daily for weather forecasts. These forecasts can be obtained at <a href="http://www.srh.noaa.gov/">http://www.srh.noaa.gov/</a>.



Weather reports should be printed and maintained with the SWPPP in CSMP Attachment 1 "Weather Reports".

# 7.3.2 Rain Gauges

The QSP or his designee shall install at least one rain gauge at an easily-accessible location on the project site. Locate the gauge in an open area away from obstructions such as trees or overhangs. The gauge will be mounted on a post at a height of 3 to 5 feet with the gauge extending several inches beyond the post. The top of the gauge will be kept level and the post will not be in an area where rainwater can indirectly splash from sheds, equipment, or trailers.

The rain gauge(s) shall be read daily during normal site scheduled hours. The rain gauge should be read at approximately the same time every day and the date and time of each reading recorded. Rain gauge readings will be logged in CSMP Attachment 1 "Weather Records". The rain gauge instructions will be followed to obtain accurate measurements.

Once the rain gauge reading has been recorded, accumulated rain shall be emptied and the gauge reset. For comparison with the site rain gauge, the nearest appropriate governmental rain gauge(s) can be located at the following link:

http://ocwatersheds.com/rainrecords/rainfalldata/stormdata

## 7.4 Monitoring Locations

The two yard drains located in the project area have been selected as monitoring locations for collection of stormwater samples. These are shown as Monitoring Locations M-01 and M-02 on Figure 4 of the Site Maps included in Appendix A.

## 7.5 Safety and Monitoring Exemptions

If project conditions were to change such that collection of stormwater samples was necessary by Haley & Aldrich personnel, safety practices for sample collection would be in accordance with Haley & Aldrich's site-specific Health and Safety Plan. A summary of the safety requirements that apply to sampling personnel is provided below.

- AES Safety Plans;
- Project background and identification of potential site and chemical hazards;
- Activity hazard analysis;
- Selection of personnel protective equipment;
- Hospital route map; and
- List of site emergency contacts.

Personnel will not be required to collect samples or conduct visual observations (inspections) on this project under the following conditions:



- During dangerous weather conditions such as flooding and electrical storms; or
- Outside of scheduled site business hours.

Scheduled site business hours are: 7 a.m. to 8:00 p.m., Monday through Saturday. If monitoring (visual monitoring or sample collection) of the site is unsafe because of the dangerous conditions noted above, the QSP shall document the conditions for why an exception to performing the monitoring was necessary. The exemption documentation shall be filed in CSMP Attachment 2 "Monitoring Records."

## 7.6 Visual Monitoring

Visual monitoring includes observations and inspections. Inspections of BMPs are required to identify and record BMPs that need maintenance to operate effectively, that have failed, or that could fail to operate as intended. Visual observations of the site are required to observe storm water drainage areas to identify any spills, leaks, or uncontrolled pollutant sources.

Table 7.1 identifies the required frequency of visual observations and inspections. Inspections and observations will be conducted at the locations identified in Section 7.6.3.

Table 7.1 Summary of Visual Monitoring and Inspections					
Type of Inspection	Frequency				
Routine Inspections					
BMP Inspections	Weekly <sup>1</sup>				
Tracking Control	Daily				
Non-Stormwater Discharge Observations	Quarterly during daylight hours				
Rain Event Triggered Inspections					
Site Inspections Prior to a Qualifying Event	Within 48 hours of a qualifying event <sup>2</sup>				
BMP Inspections During an Extended Storm Event	Every 24-hour period of a rain event <sup>2</sup>				
Site Inspections Following a Qualifying Event	Within 48 hours of a qualifying event <sup>2</sup>				

<sup>&</sup>lt;sup>1</sup> Most BMPs must be inspected weekly; those identified below must be inspected more frequently.

#### 7.6.1 Routine Observations and Inspections

Routine site inspections and visual monitoring are necessary to ensure that the project is in compliance with the requirements of the Construction General Permit.



<sup>&</sup>lt;sup>2</sup> Inspections are only required during scheduled site operating hours. Note however, these inspections are required daily regardless of the amount of precipitation.

## 7.6.1.1 Routine BMP Inspections

Inspections of BMPs are conducted to identify and record those which are properly installed, need maintenance to operate effectively, have failed, or could fail to operate as intended.

#### 7.6.1.2 Non-Stormwater Discharge Observations

Each drainage area will be inspected for the presence or indications of prior unauthorized and authorized non-stormwater discharges. Inspections will record the following:

- Presence or evidence of any non-stormwater discharge (authorized or unauthorized);
- Pollutant characteristics (floating and suspended material, sheen, discoloration, turbidity, odor, etc.); and
- Source of discharge.

#### 7.6.2 Rain Event-Triggered Observations and Inspections

Visual observations of the site and inspections of BMPs are required prior to a qualifying rain event; following a qualifying rain event, and every 24-hour period during a qualifying rain event. Pre-rain inspections will be conducted after consulting NOAA and determining that a precipitation event with a 50% or greater probability of precipitation has been predicted.

#### 7.6.2.1 Visual Observations Prior to a Forecasted Qualifying Rain Event

Within 48 hours prior to a qualifying event, a stormwater visual monitoring site inspection will include observations of the following locations:

- Stormwater drainage areas to identify any spills, leaks, or uncontrolled pollutant sources;
- BMPs to identify if they have been properly implemented;
- Any stormwater storage and containment areas to detect leaks and ensure maintenance of adequate freeboard.

Consistent with guidance from the State Water Resources Control Board, pre-rain BMP inspections and visual monitoring will be triggered by a NOAA forecast that indicates a probability of precipitation of 50% in the project area.



#### 7.6.2.2 BMP Inspections during an Extended Storm Event

During an extended rain event, inspections will be conducted to identify and record BMPs that:

- are properly installed;
- need maintenance to operate effectively;
- have failed; or
- Could fail to operate as intended.

If the construction site is not accessible during the rain event, the visual inspections shall be performed at all relevant outfalls, discharge points, downstream locations. The inspections should record any projected maintenance activities.

# 7.6.2.3 Visual Observations following a Qualifying Rain Event

Within 48 hours following a qualifying rain event (0.5 inches of rain) a stormwater visual monitoring site inspection is required to observe:

- Stormwater drainage areas to identify any spills, leaks, or uncontrolled pollutant sources;
- BMPs to identify if they have been properly designed, implemented, and effective;
- Need for additional BMPs;
- Any stormwater storage and containment areas to detect leaks and ensure maintenance of adequate freeboard; and
- Discharge of stored or contained rain water.

## 7.6.3 Visual Monitoring Procedures

Visual monitoring shall be conducted by the QSP or staff trained by and under the supervision of the QSP. The name(s) and contact number(s) of the site visual monitoring personnel are listed below and their training qualifications are provided in Appendix K.

Assigned inspector: Coury McKinlay Contact phone: 562-493-7863
Alternate inspector: Michael Hughes Contact phone: 562-493-7307

Stormwater observations shall be documented on the *Visual Inspection Field Log Sheet* (see CSMP Attachment 3 "Example Forms"). BMP inspections shall be documented on the site-specific BMP inspection checklist. Any photographs used to document observations will be referenced on the stormwater site inspection report and maintained with the Monitoring Records in CSMP Attachment 2.



The QSP shall within 7 days of the inspection place copies of the completed inspection report in CSMP Attachment 2 "Monitoring Records".

# 7.6.4 Visual Monitoring Follow-Up and Reporting

Correction of deficiencies identified during the observations or inspections, including required repairs or maintenance of BMPs, shall be initiated and completed as soon as possible. If identified deficiencies require design changes, including additional BMPs, the implementation of changes will be initiated within 72 hours of identification and completed as soon as possible. When design changes to BMPs are required, the SWPPP shall be amended to reflect the changes.

Deficiencies identified in site inspection reports and correction of deficiencies will be tracked on the *Inspection Field Log Sheet* or *BMP Inspection Report* and shall be submitted to the QSP. Hard copies of the reports will be kept in CSMP Attachment 2 "Monitoring Records."

The QSP shall within 7 days of the inspection place copies of the completed *Inspection Field Log Sheet* or *BMP Inspection Report* with the corrective actions in Attachment 2. Results of visual monitoring will be summarized and reported in the Annual Report.

#### 7.6.5 Visual Monitoring Locations

The inspections and observations identified in Sections 7.6.1 and 7.6.2 will be conducted at the locations identified in this section. BMP locations are shown on the Site Maps in Appendix A.

There is one major drainage area on the project site. Storm water sheet flows to the two yard drains located at the low point of the drainage area. The general drainage pattern is shown on the Site Maps in Appendix A, and Table 7.2 identifies each drainage area by location. Post-construction drainage will be contained on site and/or drained to the to the Facility discharge locations

Table 7.2 Site Drainage Areas

Area	Location
Project Area	Surface water drains via sheet flow toward one of two yard drains located in the western portion of the project area. These yard drains discharge to a retention basin located southwest of the project area within the Facility.

There is one stormwater retention area located outside the project area but within the Facility, and is shown on the Site Maps in Appendix A. Table 7.3 identifies each stormwater storage or containment area by location.



Table 7.3 Stormwater Storage and Containment Areas

Feature	Location
Retention Basin	Southwest of project area, but within Facility

The retention basin discharges to the Pacific Ocean via a 4.3-meter diameter conduit approximately 1,200 feet offshore from the Facility. This discharge location is not shown on the Site Maps in Appendix A, but is identified in Table 7.4.

**Table 7.4 Site Stormwater Discharge Locations** 

Location No.	Location
Pacific Ocean	Approximately 1,200 feet offshore from the Facility

# 7.7 Water Quality Sampling and Analysis

# 7.7.1 Sampling and Analysis Plan for Non-Visible Pollutants in Stormwater Runoff Discharges

This Sampling and Analysis Plan for Non-Visible Pollutants describes the sampling and analysis strategy and schedule for monitoring non-visible pollutants in stormwater runoff discharges from the project site.

Sampling for non-visible pollutants will be conducted when (1) a breach, leakage, malfunction, or spill is observed; and (2) the leak or spill has not been cleaned up prior to the rain event; and (3) there is the potential for discharge of non-visible pollutants to surface waters or drainage system.

The following existing site features, construction materials, wastes, or activities, as identified in Section 2.6, are potential sources of non-visible pollutants to stormwater discharges from the project. Storage, use, and operational locations are shown on the Site Maps in Appendix A.

- 1. Petroleum hydrocarbon- impacted soil from around tank foundations, pipelines and containment berm soil to be stockpiled;
- 2. Lead from paint chips during structure abatement and demolition;
- 3. Asbestos from structure abatement and demolition;
- 4. Crushed concrete / waste concrete stockpiles;
- 5. Construction vehicle and equipment staging area (fueling; generator use; potential lubricant or hydraulic oil leaks); and



#### 6. Waste hauling vehicles (potential hydraulic oil leaks).

It is possible that soil amendments will be used on construction roads and/or the disturbed soil areas within the project area during construction activities. However, it is not anticipated that these amendments will have the potential to change the chemical properties, engineering properties, or erosion resistance of the soil to which they have been applied, and there is no anticipated potential for discharge of non-visible pollutants to surface waters or the storm drain system.

There is potential for the project area to receive stormwater run-on from adjacent graded locations. However, BMPs will be constructed to divert this run-on to the yard drains and away from project activities. Therefore, there is no potential for run-on to contribute non-visible pollutants to stormwater discharges from the project.

# 7.7.1.1 Sampling Schedule

Samples for the potential non-visible pollutant(s) and a sufficiently large unaffected area background sample shall be collected during the first two hours of discharge from rain events that result in a sufficient discharge for sample collection. Samples shall be collected during the site's scheduled hours and shall be collected regardless of the time of year and phase of construction.

Collection of discharge samples for non-visible pollutant monitoring will be triggered when any of the following conditions are observed during site inspections conducted prior to or during a rain event:

- Materials or wastes containing potential non-visible pollutants are not stored under watertight conditions. Watertight conditions are defined as (1) storage in a watertight container, (2) storage under a watertight roof or within a building, or (3) protected by temporary cover and containment that prevents stormwater contact and runoff from the storage area.
- Materials or wastes containing potential non-visible pollutants are stored under watertight conditions, but (1) a breach, malfunction, leakage, or spill is observed, (2) the leak or spill is not cleaned up prior to the rain event, and (3) there is the potential for discharge of non-visible pollutants to surface waters or a storm drain system.
- A construction activity, including but not limited to those in Section 2.6, with the potential to contribute non visible pollutants (1) was occurring during or within 24 hours prior to the rain event, (2) BMPs were observed to be breached, malfunctioning, or improperly implemented, and (3) there is the potential for discharge of non-visible pollutants to surface waters or a storm drain system.
- Soil amendments that have the potential to change the chemical properties, engineering properties, or erosion resistance of the soil have been applied, and there



is the potential for discharge of non-visible pollutants to surface waters or a storm drain system.

■ Stormwater runoff from an area contaminated by historical usage of the site has been observed to combine with stormwater runoff from the site, and there is the potential for discharge of non-visible pollutants to surface waters or a storm drain system.

# 7.7.1.2 Sampling Locations

Sampling locations are based on proximity to planned non-visible pollutant storage, occurrence or use; accessibility for sampling, and personnel safety. Planned non-visible pollutant sampling locations are shown on the Site Maps in Appendix A and include the locations identified in the tables below.

One sampling location on the project site and the contractor's yard has been identified for the collection of samples of runoff from planned material and waste storage areas and areas where non-visible pollutant producing construction activities are planned.

**Table 7.4 Non-Visible Pollutant Sample Locations** 

Sample Location Number	Sample Location Description	Sample Location Latitude and Longitude (Decimal Degrees)
M-01	Yard drain in western portion of project area, west of Maintenance Storage Building	33* 38' 41.23" N 117* 58' 39.54" W
M-02	Yard drain in western portion of project area, south of and adjacent to Maintenance Storage Building	33* 38' 40.38" N 117* 58' 37.94" W

One sampling location has been identified for the collection of an uncontaminated sample of runoff as a background sample for comparison with the samples being analyzed for non-visible pollutants. This location(s) was selected such that the sample will not have come in contact with the operations, activities, or areas identified in Section 7.7.1 or with disturbed soil areas.



Table 7.5 Non-Visible Pollutant Sample Locations – Background (Unaffected Sample)

Sample Location Number	Sample Location	Sample Location Latitude and Longitude (Decimal Degrees)
BG-01	Upgradient (north) portion of project area on asphalt parking lot surface	33* 38' 44.57" N 117* 58' 36.45" W

# 7.7.1.3 Monitoring Preparation

Non-visible pollutant samples will be collected by:			
Contractor x Yes	☐ No		
Consultant Yes	x No		
Laboratory Yes	x No		
Samples on the project si	ite will be collected by the following:		
Company Name:	AES		
Street Address:	690 N. Studebaker Road		
City, State Zip:	Long Beach, CA		
Telephone Number:	562-493-7863		
Point of Contact:	Joshua Wynia		
Name of Sampler(s):	Coury McKinlay		
Name of Alternate(s):	Michael Hughes		

The QSP or his/her designee will be contacted 24 hours prior to a predicted rain event or for an unpredicted event, as soon as a rain event begins if one of the triggering conditions is identified during an inspection to ensure that adequate sample collection personnel and supplies for monitoring non-visible pollutants are available and will be mobilized to collect samples on the project site in accordance with the sampling schedule.

## 7.7.1.4 Analytical Constituents

Table 7.6 lists the specific sources and types of potential non-visible pollutants on the project site and the water quality indicator constituent(s) for that pollutant.



Table 7.6 Potential Non-Visible Pollutants and Water Quality Indicator Constituents

Pollutant Source	Pollutant	Water Quality Indicator Constituent	
AST area soil surface/	Petroleum hydrocarbons	TPH-GRO	
stockpiled containment berms	Oil & grease	TPH-DRO	
stockpiled containment berins	Lead	Lead	
Concrete stockpiles	CaCO3	рН	
ACT and buildings/ materials to	Metals, Lead	Metals, Lead	
AST and buildings/ materials to be abated/ demolished	Asbestos	Asbestos	
oc usuced, demonstree	PCBs	PCBs	
E al all almalinas (acutants	Petroleum HCs, oils	TPH-GRO; TPH-DRO, O&G	
Fuel oil pipelines (contents, solder, flux, fittings)	VOCs	VOCs	
solder, max, mangs)	Metals (Cu, Pb, Sn, Zn)	Metals	
Vohiala and aguinment usa	Fuels; Oil & grease	TPH-GRO; TPH-DRO; O&G	
Vehicle and equipment use	Battery acid	pH; lead	
Soil amendments	(TBD)	(TBD)	
Portable toilets	Sanitary waste	BOD; Total/Fecal coliform	

See Appendix G for a project-specific list of potential non-visible pollutants and water quality indicator constituents.

#### 7.7.1.5 Sample Collection

Samples of discharge shall be collected at the designated non-visible pollutant sampling locations shown on the Site Maps in Appendix A or in the locations determined by observed breaches, malfunctions, leakages, spills, operational areas, soil amendment application areas, and historical site usage areas that triggered the sampling event.

Grab samples shall be collected and preserved in accordance with the methods identified in the Table, "Sample Collection, Preservation and Analysis for Monitoring Non-Visible Pollutants" provided in Section 7.7.1.6. Only the QSP, or personnel trained in water quality sampling under the direction of the QSP shall collect samples. Sample collection and handling requirements are described in Section 7.7.7.

## 7.7.1.6 Sample Analysis

Samples shall be analyzed following the methods identified in Table 7.7. Samples will be analyzed by:

Laboratory Name: Eurofins (Calscience)



Street Address: 7440 Lincoln Way

City, State Zip: Garden Grove, CA 92841

Telephone Number: 714-895-5494
Point of Contact: Virendra Patel

ELAP Certification 03220CA

Number:

Samples will be delivered to the laboratory by:

Table 7.7 Sample Collection, Preservation and Analysis for Monitoring Non-Visible Pollutants

Constituent	Analytical Method	Min. Sample Volume	Sample Containers	Sample Pres.	RL	Max. Hold Time
TPH-GRO	8015M	120 ml	40 ml VOA	HCl	0.5 ug/L	7 days
TPH-DRO	8015M	1 L	1L amber	none	0.5 ug/L	7 days
Oil & Grease	1664	1 L	1L amber	none	0.5 ug/L	7 days
Metals	6010/7000	125 ml	125ml HDPE	HNO3	(a)	14 days
VOCs	8260B	120 ml	40 ml VOA	HC1	0.5 ug/L	7 days
Lead	6010/7000	125 ml	125ml HDPE	HNO3	0.05 mg/L	14 days
PCBs	8082	1 L	1 L amber	none	0.1 ug/L	7 days
BOD	5210B	300 ml	500 ml	none	(b)	24 hrs.
Total coliform	MPN	1 L	1 L amber	none	(b)	48 hrs.
Fecal coliform	MPN	1 L	1 L amber	none	(b)	48 hrs.
Nutrients	1622	1 L	1 L	none	(a)	96 hrs.
рН	9045	250 ml	1L amber	none	NA	15 min

Notes: (a) Reporting limits (RLs) vary for individual constituents

(b) To be determined by laboratory

# 7.7.1.7 Data Evaluation and Reporting

The QSP shall complete an evaluation of the water quality sample analytical results.



Runoff/ downgradient results shall be compared with the associated upgradient/ background results and any associated run-on results. Should the runoff/ downgradient sample show an increased level of the tested analyte relative to the unaffected background sample that cannot be explained by run-on results, the BMPs, site conditions, and surrounding influences shall be assessed to determine the probable cause for the increase.

As determined by the site and data evaluation, appropriate BMPs shall be repaired or modified to mitigate discharges of non-visible pollutant concentrations. Any revisions to the BMPs shall be recorded as an amendment to the SWPPP.

The General Permit prohibits stormwater discharges that contain hazardous substances equal to or in excess of reportable quantities established in 40 CFR §§ 117.3 and 302.4. The results of any non-stormwater discharge results that indicate the presence of a hazardous substance in excess of established reportable quantities shall be immediately reported to the Regional Water Board and other agencies as required by 40 CFR §§ 117.3 and 302.4.

Results of non-visible pollutant monitoring shall be reported in the Annual Report.

# 7.7.2 Sampling and Analysis Plan for pH and Turbidity in Stormwater Runoff Discharges

Sampling and analysis of runoff for pH and turbidity is required for this project. This Sampling and Analysis Plan describes the strategy for monitoring turbidity and pH levels of stormwater runoff discharges from the project site and run-on that may contribute to an exceedance of a Numeric Action Level (NAL).

Samples for turbidity will be collected from all drainage areas with disturbed soil, and samples for pH will be collected from all drainage areas with a high risk of pH discharge.

#### 7.7.2.1 Sampling Schedule

Stormwater runoff samples shall be collected for turbidity from all qualifying rain events that result in a discharge from the project site. At minimum, turbidity samples will be collected from each site discharge location draining a disturbed area. A minimum of three samples will be collected per day of discharge during a qualifying event. Samples should be representative of the total discharge from the project each day of discharge during the qualifying event. Typically, representative samples will be spaced in time throughout the daily discharge event.

Stormwater runoff samples shall be collected for pH from all qualifying rain events that result in a discharge from the project site. At minimum, pH samples will be collected from each site discharge location during project phases and drainage areas with a high



risk of pH discharge. A minimum of three samples will be collected per day of discharge during a qualifying event. Samples should be representative of the total discharge from the location each day of discharge during the qualifying event. Typically representative samples will be spaced in time throughout the daily discharge event.

Stored or collected water from a qualifying storm event when discharged shall be tested for turbidity and pH (when applicable). Stored or collected water from a qualifying event may be sampled at the point it is released from the storage or containment area or at the site discharge location.

Run-on samples shall be collected whenever the QSP identifies that run-on has the potential to contribute to an exceedance of an NAL.

# 7.7.2.2 Sampling Locations

Sampling locations are based on the site runoff discharge locations and locations where run-on enters the site; accessibility for sampling; and personnel safety. Planned pH and turbidity sampling locations are shown on the Site Maps in Appendix A and identified in tables below.

One sampling location on the project site and the contractor's yard has been identified for collection of runoff samples. Table 7.8 also provides an estimate of the site's area that drains to each location.

Table 7.8 Turbidity and pH Runoff Sample Locations

Sample Location Number	Sample Location	Estimate of Site Drainage (%)
M-01	Yard drain west of Maintenance Storage Building	15
M-02	Yard drain south of Maintenance Storage Building	85

The project area does not receive run-on with the potential to exceed NALs or NELs.

#### 7.7.2.3 Monitoring Preparation

Turbidity and pH samples will be collected and analyzed by:				
Contractor	X Yes	☐ No		
Consultant	Yes	X No		
Laboratory	Yes	X No		

Samples on the project site will be collected by the following:



Company Name: AES

Street Address: 690 N. Studebaker Road

City, State Zip: Long Beach, CA

Telephone Number: 562-493-7863

Point of Contact: Joshua Wynia

Name of Sampler(s): Coury McKinlay

Name of Alternate(s): Michael Hughes

The QSP or his/her designee shall be contacted 24 hours prior to a predicted rain event or for an unpredicted event, as soon as a rain event begins to ensure that adequate sample collection personnel, supplies for monitoring pH and turbidity are available and will be mobilized to collect samples on the project site in accordance with the sampling schedule.

#### 7.7.2.4 Field Parameters

Samples shall be analyzed for the constituents indicated in the table below "Sample Collection, and Analysis for Monitoring Turbidity and pH."

Table 7.9 Sample Collection and Analysis for Monitoring Turbidity and pH

Parameter	Test Method	Minimum Sample Volume <sup>(1)</sup>	Sample Collection Container Type	Detection Limit (minimum)
Turbidity	Field meter/probe with calibrated portable instrument	500 mL	Polypropylene or Glass (Do not collect in meter sample cells)	1 NTU
рН	Internal AES laboratory measurement	100 mL	Polypropylene	0.2 pH units

Notes: Minimum sample volume recommended. Specific volume requirements will vary by instrument; check instrument manufacturer instructions.

L - Liter

mL - Milliliter

NTU - Nephelometric Turbidity Unit

## 7.7.2.5 Sample Collection

Samples of discharge shall be collected at the designated runoff sampling locations shown on the Site Maps in Appendix A. There is not expected to be run-on at these



locations. Only personnel trained in water quality sampling and field measurements working under the direction of the QSP shall collect samples.

Sample collection and handling requirements are described in Section 7.7.7.

## 7.7.2.6 Field Measurements

Samples collected for field analysis, collection, analysis and equipment calibration shall be in accordance with the field instrument manufacturer's specifications.

Immediately following collection, samples for field analysis shall be tested in accordance with the field instrument manufacturer's instructions and results recorded on the *Effluent Sampling Field Log Sheet*.

The field instrument(s) listed in Table 7.10 will be used to analyze the following constituents:

**Table 7.10** Field Instruments

Field Instrument (Manufacturer and Model)	Constituent
Lab measurement at AES	рН
Horiba or YSI	Turbidity

The manufacturers' instructions are included in CSMP Attachment 4 "Field Meter Instructions". Field sampling staff shall review the instructions prior to each sampling event and follow the instructions in completing measurement of the samples.

- The instrument(s) shall be maintained in accordance with manufacturer's instructions.
- The instrument(s) shall be calibrated before each sampling and analysis event.
- Maintenance and calibration records shall be maintained with the SWPPP.

The QSP may authorize alternate equipment provided that the equipment meets the Construction General Permit's requirements and the manufacturers' instructions for calibration and use are added to CSMP Attachment 4 "Field Meter Instructions".

# 7.7.2.7 Data Evaluation and Reporting

Immediately upon completing the measurements for the sampling event, provide the *Effluent Sampling Field Log Sheets* to the QSP for evaluation.

#### **Numeric Action Levels**

This project is subject to NALs for pH and turbidity (Table 7.11). Compliance with the NAL for pH and turbidity is based on a daily average. Upon receiving the field log



sheets, the QSP shall immediately calculate the arithmetic average of the pH and turbidity samples to determine if the NALs, shown in the table below, have been exceeded.

**Table 7.11 Numeric Action Levels** 

Parameter	Unit	Daily Average
pН	pH units	Lower NAL = 6.5 Upper NAL = 8.5
Turbidity	NTU	250 NTU

The QSP shall within 3 days of the sample collection submit copies of the completed *Effluent Sampling Field Log Sheets* to the LRP.

In the event that the pH or turbidity NAL is exceeded, the QSP shall immediately notify the LRP and investigate the cause of the exceedance and identify corrective actions.

Exceedances of NALs shall be electronically reported to the State Water Board by the LRP through the SMARTs system within 10 days of the conclusion of the storm event. If requested by the Regional Board, an NAL Exceedance report will be submitted. The NAL Exceedance Report must contain the following information:

- Analytical method(s), method reporting unit(s), and MDL(s) of each parameter;
- Date, place, time of sampling, visual observation, and/or measurements, including precipitation; and
- Description of the current BMPs associated with the sample that exceeded the NAL and the proposed corrective actions taken.

#### 7.7.3 Additional Monitoring Following an NEL Exceedance

This project is not subject to NELs.

#### 7.7.4 Sampling and Analysis Plan for Non-Stormwater Discharges

This Sampling and Analysis Plan for non-stormwater discharges describes the sampling and analysis strategy and schedule for monitoring pollutants in authorized and unauthorized non-stormwater discharges from the project site in accordance with the requirements of the Construction General Permit.

Sampling of non-stormwater discharges will be conducted when an authorized or unauthorized non-stormwater discharge is observed discharging from the project site. In the event that non-stormwater discharges run-on to the project site from offsite locations, and this run-on have the potential to contribute to a violation of a NAL, the run-on will also be sampled.



There are no expected authorized non-stormwater discharges identified in Section 2.7, therefore none are expected to be discharged from the project site.

Some construction activities have the potential to result in an unplanned (unauthorized) non-stormwater discharge if BMPs fail. These activities may include but are not limited to:

- Broken water line from hydrant connection; or
- Leak in water source used for hydro-washing of potential residual fuel oil in pipelines.

# 7.7.4.1 Sampling Schedule

Samples of authorized or unauthorized non-stormwater discharges shall be collected when they are observed.

# 7.7.4.2 Sampling Locations

Samples shall be collected from the project area location where the non-stormwater discharge may run off the site. Two sampling locations on the project site have been identified where non-stormwater discharges may runoff from the project site. These discharge locations are shown on the Site Maps in SWPPP Appendix A and described in the table below.

Sample Location Number	Sample Location	Sample Location Latitude and Longitude (Decimal Degrees)	
M-01	Yard drain in western portion of project area, west of Maintenance Storage Building	33* 38' 41.23" N 117* 58' 39.54" W	
M-02	Yard drain in western portion of project area, south of and adjacent to Maintenance Storage Building	33* 38' 40.38" N 117* 58' 37.94" W	

## 7.7.4.3 Monitoring Preparation

Non-stormwa	ater discharg	e samples wil	l be collected by	• •
Contractor	Yes	X No		
Consultant	X Yes	☐ No		
Laboratory	Yes	X No		
Samples on t	he project si	te will be coll	ected by the follo	owing personnel:
Company N	ame:	AES		



Street Address: 690 N. Studebaker Road

City, State Zip: Long Beach, CA

Telephone Number: 562-493-7863

Point of Contact: Joshua Wynia

Name of Sampler(s): Coury McKinlay

Name of Alternate(s): Michael Hughes

The QSP or his/her designee will be notified 24 hours prior to a planned non-stormwater discharge or as soon as an unplanned non-stormwater discharge is observed to ensure that adequate sample collection personnel, supplies for non-stormwater discharge monitoring are available and will be mobilized to collect samples on the project site in accordance with the sampling schedule.

# 7.7.4.4 Analytical Constituents

All non-stormwater discharges that flow through a disturbed area shall, at minimum, be monitored for turbidity.

All non-stormwater discharges that flow through an area where they are exposed to pH altering materials shall be monitored for pH.

The QSP shall identify additional pollutants to be monitored for each non-stormwater discharge incident based on the source of the non-stormwater discharge. If the source of an unauthorized non-stormwater discharge is not known, monitoring for pH, turbidity, MBAS, TOC, and residual chlorine or chloramines is recommended to help identify the source of the discharge.

Non-stormwater discharge run-on shall be monitored, at minimum, for pH and turbidity. The QSP shall identify additional pollutants to be monitored for each non-stormwater discharge incident based on the source of the non-stormwater discharge. If the source of an unauthorized non-stormwater discharge is not known, monitoring for pH, turbidity, MBAS, TOC, and residual chlorine or chloramines is recommended to help identify the source of the discharge.

Table 7.12 lists the specific sources and types of potential non-visible pollutants on the project site and the water quality indicator constituent(s) for that pollutant.



Table 7.12 Potential Non-Stormwater Discharge Pollutants and Water Quality Indicator Constituents

Pollutant Source	Pollutant	Water Quality Indicator Constituent	
Leaking dust suppression truck (if parked in disturbed soil area)		Turbidity, metals, TPH, O&G	
AST fuel oil pipeline hydrowashing source water	Fuel oil VOCs	TPH-GRO; TPH-DRO VOCs	

# 7.7.4.5 Sample Collection

Samples shall be collected at the discharge locations where the non-stormwater discharge is leaving the project site. Potential discharge locations are shown on the Site Maps in Appendix A and identified in Section 7.7.4.2.

Grab samples shall be collected and preserved in accordance with the methods identified in Table 7.13. Only personnel trained in water quality sampling under the direction of the QSP shall collect samples.

Sample collection and handling requirements are described in Section 7.7.7.

# 7.7.4.6 Sample Analysis

Samples shall be analyzed following the analytical methods identified in Table 7.13.

#### 7.7.4.7 Data Evaluation and Reporting

The QSP shall complete an evaluation of the water quality sample analytical results. Turbidity and pH results shall be evaluated for compliance with NALs as identified in Section 7.7.2.7.

Runoff results shall also be evaluated for the constituents suspected in the non-stormwater discharge. Should the runoff sample indicate the discharge of a pollutant which cannot be explained by run-on results, the BMPs, site conditions, and surrounding influences shall be assessed to determine the probable cause for the increase.

As determined by the site and data evaluation, appropriate BMPs shall be repaired or modified to mitigate discharges of non-visible pollutant concentrations. Any revisions to the BMPs shall be recorded as an amendment to the SWPPP.

Non-storm water discharge results shall be submitted with the Annual Report. The General Permit prohibits the non-storm water discharges that contain hazardous substances equal to or in excess of reportable quantities established in 40 C.F.R. §§



117.3 and 302.4. The results of any non-stormwater discharge results that indicate the presence of a hazardous substance in excess of established reportable quantities shall be immediately reported to the Regional Water Board.

Table 7.13 Sample Collection, Preservation and Analysis for Monitoring Pollutants in Non-Stormwater Discharges

Constituent	Analytical Method	Minimum Sample Volume	Sample Bottle	Sample Preservation	RL	Max Hold Time
VOCs	8260B	120 ml	40 ml VOA	HCl	0.5 ug/L	7 days
Metals	6010/7000	125 ml	125 ml HDPE	HNO3	(a)	14 days
рН	9045	250 ml	1L amber	none	NA	15 min.
TPH (GRO)	8015M	120 ml	40 ml VOA	HCl	0.5 ug/L	7 days
TPH (DRO)	8015M	1 L	1L amber	none	0.5 ug/L	7 days

#### Notes:

# 7.7.5 Sampling and Analysis Plan for Other Pollutants Required by the Regional Water Board

The Regional Water Board has not specified monitoring for additional pollutants.

# 7.7.6 Training of Sampling Personnel

Sampling personnel shall be trained to collect, maintain, and ship samples in accordance with the Surface Water Ambient Monitoring program (SWAMP) 2008 Quality Assurance Program Plan (QAPP). Training records of designated contractor sampling personnel are provided in Appendix K.

The stormwater sampler(s) and alternate(s) have received the following stormwater sampling training:

Name	Training
Coury McKinlay	Project kickoff SWPPP training
	Project kickoff SWPPP training



<sup>(</sup>a) Reporting limits vary for individual constituents

The stormwater sampler(s) and alternates have the following stormwater sampling experience:

Name	Experience
Coury McKinlay	Field sampling on various projects in Southern California

#### 7.7.7 Sample Collection and Handling

#### 7.7.7.1 Sample Collection

Samples shall be collected at the designated sampling locations shown on the Site Maps and listed in the preceding sections. Samples shall be collected, maintained and shipped in accordance with the SWAMP 2008 Quality Assurance Program Plan (QAPP).

Grab samples shall be collected and preserved in accordance with the methods identified in preceding sections.

To maintain sample integrity and prevent cross-contamination, sample collection personnel shall follow the protocols below.

- Collect samples (for laboratory analysis) only in analytical laboratory-provided sample containers;
- Wear clean, powder-free nitrile gloves when collecting samples;
- Change gloves whenever something not known to be clean has been touched;
- Change gloves between sites;
- Decontaminate all equipment (e.g. bucket, tubing) prior to sample collection using a trisodium phosphate water wash, distilled water rinse, and final rinse with distilled water. (Dispose of wash and rinse water appropriately, i.e., does not discharge to storm drain or receiving water). Do not decontaminate laboratory provided sample containers;
- Do not smoke during sampling events;
- Never sample near a running vehicle;
- Do not park vehicles in the immediate sample collection area (even non-running vehicles);
- Do not eat or drink during sample collection; and
- Do not breathe, sneeze, or cough in the direction of an open sample container.

The most important aspect of grab sampling is to collect a sample that represents the entire runoff stream. Typically, samples are collected by dipping the collection container in the runoff flow paths and streams as noted below.



- i. For small streams and flow paths, simply dip the bottle facing upstream until full.
- ii. For larger stream that can be safely accessed, collect a sample in the middle of the flow stream by directly dipping the mouth of the bottle. Once again making sure that the opening of the bottle is facing upstream as to avoid any contamination by the sampler.
- iii. For larger streams that cannot be safely waded, pole-samplers may be needed to safely access the representative flow.
- iv. Avoid collecting samples from ponded, sluggish or stagnant water.
- v. Avoid collecting samples directly downstream from a bridge as the samples can be affected by the bridge structure or runoff from the road surface.

Note that depending upon the specific analytical test, some containers may contain preservatives. These containers should **never** be dipped into the stream, but filled indirectly from the collection container.

#### 7.7.7.2 Sample Handling

Turbidity and pH measurements must be conducted immediately. Do not store turbidity or pH samples for later measurement.

Samples for laboratory analysis must be handled as follows. Immediately following sample collection:

- Cap sample containers;
- Complete sample container labels;
- Seal containers in a re-sealable storage bag;
- Place sample containers into an ice-chilled cooler;
- Document sample information on the Effluent Sampling Field Log Sheet; and
- Complete the CoC.

All samples for laboratory analysis must be maintained between 0-6 degrees Celsius during delivery to the laboratory. Samples must be kept on ice, or refrigerated, from sample collection through delivery to the laboratory. Place samples to be shipped inside coolers with ice. Make sure the sample bottles are well packaged to prevent breakage and secure cooler lids with packaging tape.

Ship samples that will be laboratory analyzed to the analytical laboratory right away. Hold times are measured from the time the sample is collected to the time the sample is analyzed. The General Permit requires that samples be received by the analytical laboratory within 48 hours of the physical sampling (unless required sooner by the analytical laboratory).



Laboratory Name: Eurofins (Calscience)

Street Address: 7440 Lincoln Way

City, State Zip: Garden Grove, CA 92841

Telephone: 714-895-5494

Point of Contact: Nicole Scott

#### 7.7.7.3 Sample Documentation Procedures

All original data documented on sample bottle identification labels, *Effluent Sampling Field Log Sheet*, and CoCs shall be recorded using waterproof ink. These shall be considered accountable documents. If an error is made on an accountable document, the individual shall make corrections by lining through the error and entering the correct information. The erroneous information shall not be obliterated. All corrections shall be initialed and dated.

Duplicate samples shall be identified consistent with the numbering system for other samples to prevent the laboratory from identifying duplicate samples. Duplicate samples shall be identified in the Effluent Sampling Field Log Sheet.

Sample documentation procedures include the following:

<u>Sample Bottle Identification Labels:</u> Sampling personnel shall attach an identification label to each sample bottle. Sample identification shall uniquely identify each sample location.

<u>Field Log Sheets:</u> Sampling personnel shall complete the *Effluent Sampling Field Log Sheet* and *Receiving Water Sampling Field Log Sheet* for each sampling event, as appropriate.

<u>Chain of Custody:</u> Sampling personnel shall complete the CoC for each sampling event for which samples are collected for laboratory analysis. The sampler will sign the CoC when the sample(s) is turned over to the testing laboratory or courier.

#### 7.8 Active Treatment System Monitoring

Will	an Activ	e Tre	atmei	nt Syster	m (ATS) b	e deploye	ed on the s	ite?					
	Yes		X	No									
This	project	does	not	require	a project	specific	Sampling	and	Analysis	Plan	for	an	ATS
becai	ise deplo	oymen	t of a	an ATS	is not plan	ned.							

#### 7.9 Bioassessment Monitoring

This project is not subject to bioassessment monitoring because it is not a Risk Level 3 project.

#### 7.10 Watershed Monitoring Option



This project is not participating in a watershed monitoring option.

#### 7.11 Quality Assurance and Quality Control

An effective Quality Assurance and Quality Control (QA/QC) plan shall be implemented as part of the CSMP to ensure that analytical data can be used with confidence. QA/QC procedures to be initiated include the following:

- Field logs;
- Clean sampling techniques;
- CoCs;
- QA/QC Samples; and
- Data verification.

Each of these procedures is discussed in more detail in the following sections.

#### 7.11.1 Field Logs

The purpose of field logs is to record sampling information and field observations during monitoring that may explain any uncharacteristic analytical results. Sampling information to be included in the field log include the date and time of water quality sample collection, sampling personnel, sample container identification numbers, and types of samples that were collected. Field observations should be noted in the field log for any abnormalities at the sampling location (color, odor, BMPs, etc.). Field measurements for pH and turbidity should also be recorded in the field log. A Visual Inspection Field Log and an Effluent Sampling Field Log Sheet are included in CSMP Attachment 3 "Example Forms".

#### 7.11.2 Clean Sampling Techniques

Clean sampling techniques involve the use of certified clean containers for sample collection and clean powder-free nitrile gloves during sample collection and handling. As discussed in Section 7.7.7, adoption of a clean sampling approach will minimize the chance of field contamination and questionable data results.

#### 7.11.3 Chain of Custody

The sample CoC is an important documentation step that tracks samples from collection through analysis to ensure the validity of the sample. Sample CoC procedures include the following:

- Proper labeling of samples;
- Use of CoC forms for all samples; and
- Prompt sample delivery to the analytical laboratory.



Analytical laboratories usually provide CoC forms to be filled out for sample containers. An example CoC is included in CSMP Attachment 3 "Example Forms".

### 7.11.4 QA/QC Samples

QA/QC samples provide an indication of the accuracy and precision of the sample collection; sample handling; field measurements; and analytical laboratory methods. The following types of QA/QC will be conducted for this project:

- Field Duplicates at a frequency of 1 minimum per 10 samples per event (Required for all sampling plans with field measurements or laboratory analysis)
- Equipment Blanks at a frequency of 5% of samples collected (Only required if equipment used to collect samples could add pollutants to sample)
- Field Blanks at a frequency of 1 minimum per sampling event (Only required if sampling method calls for field blanks)
- Travel Blanks at a frequency of 1 per shipment of samples to laboratory (Required for sampling plans that include VOC laboratory analysis)

#### 7.11.4.1 Field Duplicates

Field duplicates provide verification of laboratory or field analysis and sample collection. Duplicate samples shall be collected, handled, and analyzed using the same protocols as primary samples. The sample location where field duplicates are collected shall be randomly selected from the discharge locations. Duplicate samples shall be collected immediately after the primary sample has been collected. Duplicate samples must be collected in the same manner and as close in time as possible to the original sample. Duplicate samples shall not influence any evaluations or conclusion.

#### 7.11.4.2 Equipment Blanks

Equipment blanks provide verification that equipment has not introduced a pollutant into the sample. Equipment blanks are typically collected when:

- New equipment is used;
- Equipment that has been cleaned after use at a contaminated site;
- Equipment that is not dedicated for surface water sampling is used; or
- Whenever a new lot of filters is used when sampling metals.

#### 7.11.4.3 Field Blanks

Field blanks assess potential sample contamination levels that occur during field sampling activities. De-ionized water field blanks are taken to the field, transferred to the appropriate container, and treated the same as the corresponding sample type during the course of a sampling event.



#### 7.11.4.4 Travel Blanks

Travel blanks assess the potential for cross-contamination of volatile constituents between sample containers during shipment from the field to the laboratory. De-ionized water blanks are taken along for the trip and held unopened in the same cooler with the VOC samples.

#### 7.11.4.5 Data Verification

After results are received from the analytical laboratory, the QSP shall verify the data to ensure that it is complete, accurate, and the appropriate QA/QC requirements were met. Data must be verified as soon as the data reports are received. Data verification shall include:

- Check the CoC and laboratory reports.
   Ensure requested analyses were performed and samples are accounted for in the reports.
- Check laboratory reports to make sure hold times were met and that the reporting levels meet or are lower than the reporting levels agreed to in the contract.
- Check data for outlier values and follow up with the laboratory.

  Occasionally typographical errors, unit reporting errors, or incomplete results are reported and should be easily detected. These errors need to be identified, clarified, and corrected quickly by the laboratory. The QSP should especially note data that is an order of magnitude or more different than similar locations, or is inconsistent with previous data from the same location.
- Check laboratory QA/QC results.

  EPA establishes QA/QC checks and acceptable criteria for laboratory analyses.

  These data are typically reported along with the sample results. The QSP shall evaluate the reported QA/QC data to check for contamination (method, field, and equipment blanks), precision (laboratory matrix spike duplicates), and accuracy (matrix spikes and laboratory control samples). When QA/QC checks are outside acceptable ranges, the laboratory must flag the data, and usually provides an explanation of the potential impact to the sample results.
- Check the data set for outlier values and, accordingly, confirm results and re-analyze samples where appropriate.

  Sample re-analysis should only be undertaken when it appears that some part of the QA/QC resulted in a value out of the accepted range. Sample results may not be discounted unless the analytical laboratory identifies the required QA/QC criteria were not met and confirms this in writing.

Field data including inspections and observations must be verified as soon as the field logs are received, typically at the end of the sampling event. Field data verification shall include:



- Check field logs to make sure all required measurements were completed and appropriately documented;
- Check reported values that appear out of the typical range or inconsistent; Follow-up immediately to identify potential reporting or equipment problems, if appropriate, recalibrate equipment after sampling;
- Verify equipment calibrations;
- Review observations noted on the field logs; and
- Review notations of any errors and actions taken to correct the equipment or recording errors.

#### 7.12 Records Retention

Records of stormwater monitoring information and copies of reports (including Annual Reports) must be retained for a period of at least three years from date of submittal or longer if required by the Regional Water Board.

Results of visual monitoring, field measurements and laboratory analyses must be kept in the SWPPP along with CoCs and other documentation related to the monitoring.

Records are to be kept onsite while construction is ongoing. Records to be retained include:

- The date, place, and time of inspections, sampling, visual observations, and/or measurements, including precipitation;
- The individual(s) who performed the inspections, sampling, visual observation, and/or field measurements;
- The date and approximate time of field measurements and laboratory analyses;
- The individual(s) who performed the laboratory analyses;
- A summary of all analytical results, the method detection limits and reporting limits, and the analytical techniques or methods used;
- Rain gauge readings from site inspections;
- QA/QC records and results;
- Calibration records;
- Visual observation and sample collection exemption records;
- The records of any corrective actions and follow-up activities that resulted from analytical results, visual observations, or inspections; and
- NAL Exceedance Reports.



#### **REFERENCES**

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- 2. State Water Resources Control Board (2010). Order 2010-0014-DWQ, NPDES General Permit No. CAS000002: National Pollutant Discharges Elimination System (NPDES) California General Permit for Storm Water Discharge Associated with Construction and Land Disturbing Activities. Available on-line at: <a href="http://www.waterboards.ca.gov/water\_issues/programs/stormwater/construction.shtml">http://www.waterboards.ca.gov/water\_issues/programs/stormwater/construction.shtml</a>.
- 3. CASQA 2009, Stormwater BMP Handbook Portal: Construction, November 2009, www.casqa.org
- 4. California Energy Commission, 2014. Draft RPMPD Conditions of Certification Appendix A, Huntington Beach Energy Project (12-AFC-02). October 9.
- 5. Jamison and Associates, December 2012. Huntington Beach Closure Plan,
- 6. Draft RRMPD Conditions of Certification, October 2014

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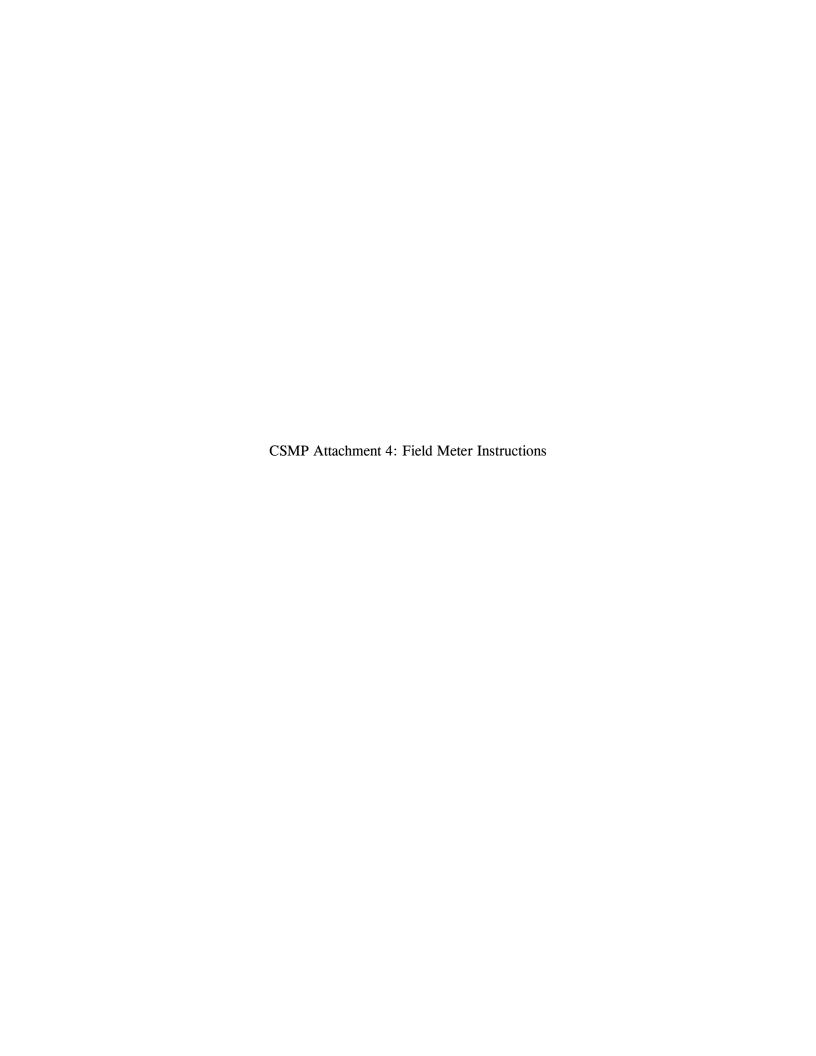
Risk Level 2 Effluent Sampling Field Log Sheets									
Construction Site Name			Date:			ne Stai	rt:		
Sampler:									
Sampling Event Type:	□ Stormw	/ater	□ Non-				Non-visible pollutant		
		Fie	eld Meter C		n				
pH Meter ID No./Desc.: Calibration Date/Time:			Turbid	lity Meter ation Date	ID No.	/Desc.:			
	Field	d pH a	nd Turbid	ity Meası	ıreme	nts			
Discharge Location De			рН	Turb			Time		
<u> </u>					,				
		Gra	b Samples		ed				
Discharge Location De	escription		Samp	le Type			Time		
			_						
Additional Sampling Notes:									
Time End:									

NAL or NEL Exceedand	ce Evaluation Summary Report	Page of
Project Name		
Project WDID		
Project Location		
Date of Exceedance		
Type of Exceedance	NAL Daily Average	
	Other (specify)	
Measurement or Analytical Method	☐ Field meter  (Sensitivity:)  ☐ Lab method (specify)  (Reporting Limit:)  (MDL:)	
Calculated Daily Average	☐ pH _ pH units ☐ Turbidity NTU	
Rain Gauge Measurement	inches	
Compliance Storm Event	inches (5-year, 24-hour event)	
Visual Observations on Day of Exceedance		

NAL or NEL Exceedance	ce Evaluation Summary Report	Page _	_ of
Description of BMPs in Place at Time of Event			
Initial Assessment of Cause			
Corrective Actions Taken (deployed after exceedance)			
Additional Corrective Actions Proposed			
Report Completed By	(Print Name, Title)	_	
Signature		_	

			Rain G	auge Log Sheet					
Construction	Site Name	:							
WDID #:	WDID #:								
WDID #.									
Date (mm/dd/yy)	Time (24-hr)	Initials	Rainfall Depth (Inches)	Notes:					

Risk Level 1, 2, 3 Visual Inspection Field Log Sheet							
Date and Time of Insp	pection:	-	F	Report Date	•		
Inspection Type:	□ Weekly	☐ Before predicted rain	□ During rain event	□ Following qualifying rain event	□ Contained stormwater release		□ Quarterly non-stormwater
		Site In	formation				
Construction Site Nar	me:						
Construction stage ar completed activities:	nd				Approxim of expose		
		Weather and	d Observat				
Date Rain Predicted t	o Occur:			Predicted	% chanc	e of ra	ain:
Estimate storm I	peginning:	Estima duration:	ate storm	Estimat since las		l l	Rain gauge ling:
(date and t	ime)	— (ho	ours)	(days or	hours)		(inches)
Observations: If yes in	dentify location	on					
Odors	Yes □ No						
Floating material	Yes □ No						
Suspended Material	Yes □ No						
Sheen	Yes □ No						
Discolorations	Yes □ No						
Turbidity	Yes □ No						
		Site In	spections				
Outfalls or BMI			l detelle d Di	Deficienci			
(add ad	aditional snee	ets or attached	detalled Bi	VIP Inspection	on Check	iists)	
Dhatas Takani			Dhata	Deference II	Day		
Photos Taken:	Yes			Reference II			
Correctiv	ve Actions I	dentified (not	e if SWPPP	P/REAP cha	inge is ne	edec	1)
Inspector Information							
Inspector Name:				Inspector	Title:		
Signature:				•	]	Date:	

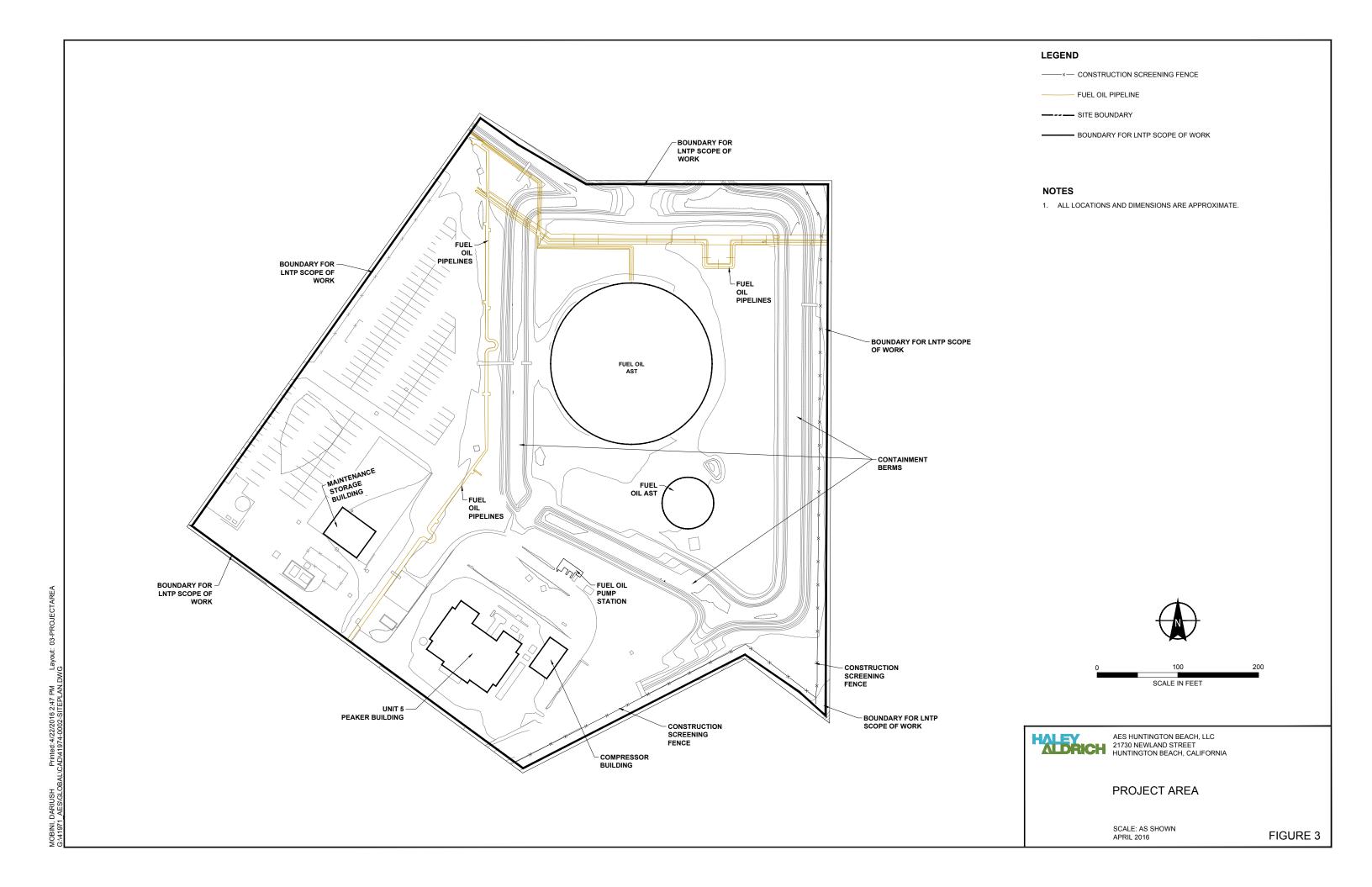


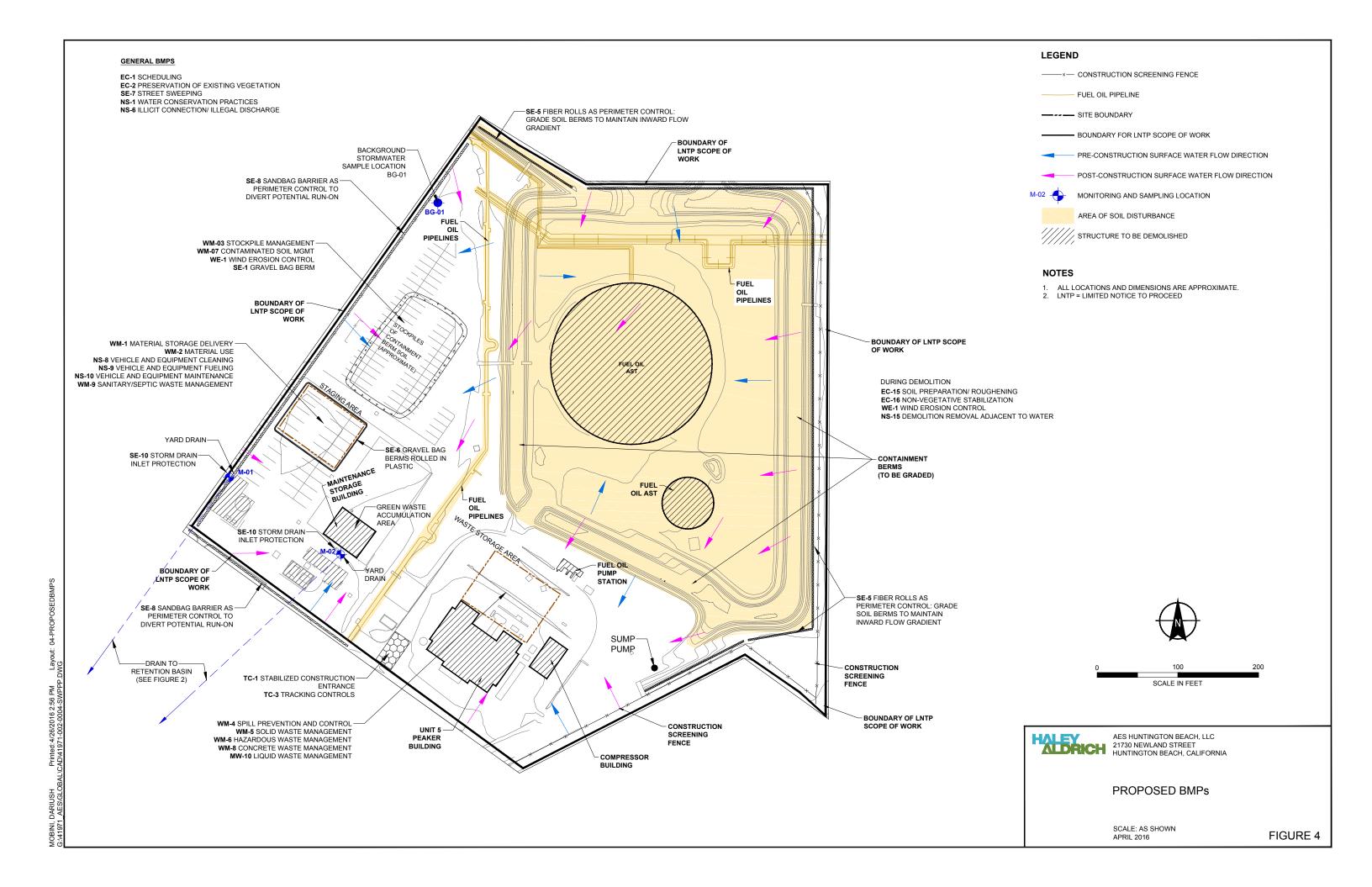


APPENDIX A

**Site Maps** 

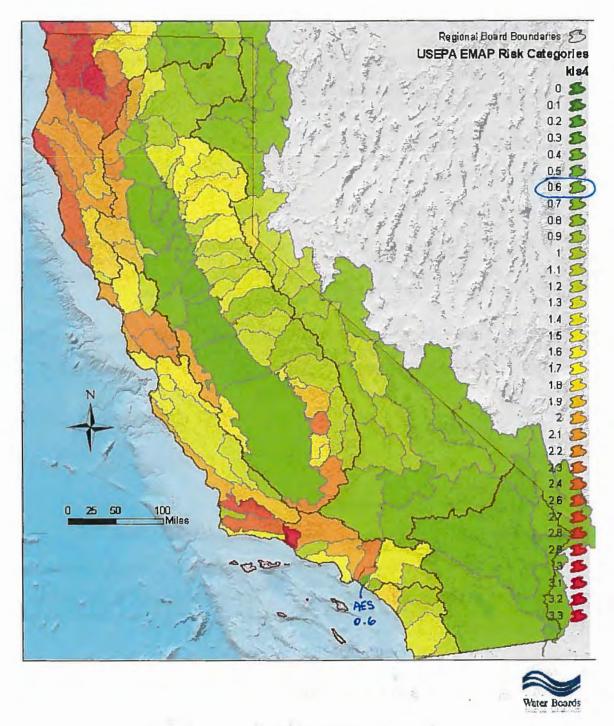






APPENIX B

**Calculations** 



State Water Resources Control Board, January 15, 2008

Figure 1 -Statewide Map of K \* LS

For the manual calculation option, the R factor for the project is calculated using the online calculator at <a href="http://cfpub.epa.gov/npdes/stormwater/LEW/lewCalculator.cfm">http://cfpub.epa.gov/npdes/stormwater/LEW/lewCalculator.cfm</a>. The K and LS factors are determined using Appendix 1.

Soil loss of less than 15 tons/acre is considered **low** sediment risk. Soil loss between 15 and 75 tons/acre is **medium** sediment risk. Soil loss over 75 tons/acre is considered **high** sediment risk.

1.15 0.35

AES location relative
to Long Boach.

#### 5. Record Keeping

According to 40 C.F.R. Parts 122.21(p) and 122.41(j), the discharger is required to retain paper or electronic copies of all records required by this General Permit for a period of at least three years from the date generated or the date submitted to the State Water Board or Regional Water Boards. A discharger must retain records for a period beyond three years as directed by Regional Water Board.

#### J. Risk Determination

#### 1. Traditional Projects

#### a. Overall Risk Determination

There are two major requirements related to site planning and risk determination in this General Permit. The project's overall risk is broken up into two elements – (1) project sediment risk (the relative amount of sediment that can be discharged, given the project and location details) and (2) receiving water risk (the risk sediment discharges pose to the receiving waters).

Project Sediment Risk:

Project Sediment Risk is determined by multiplying the R, K, and LS factors from the Revised Universal Soil Loss Equation (RUSLE) to obtain an estimate of project-related bare ground soil loss expressed in tons/acre. The RUSLE equation is as follows:

A = (R)(K)(LS)(C)(P)

Where: A = the rate of sheet and rill erosion

R = rainfall-runoff erosivity factor

K = soil erodibility factor

LS = length-slope factor C = cover factor (erosion controls)

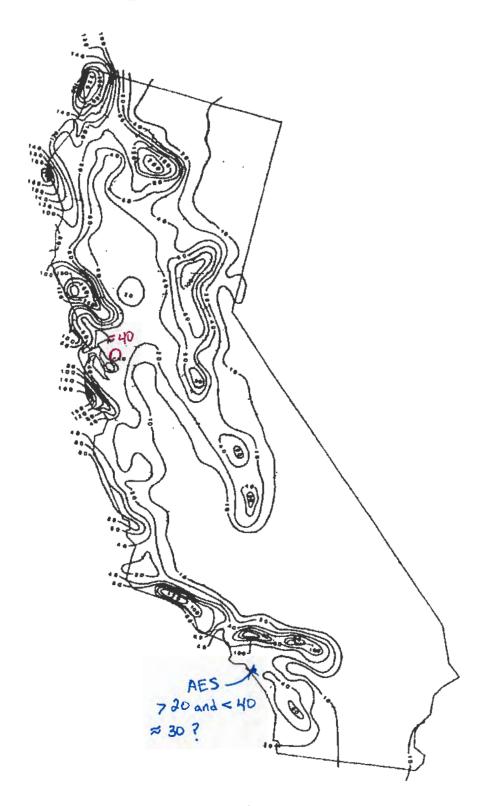
P = management operations and support practices (sediment controls)

The C and P factors are given values of 1.0 to simulate bare ground conditions.

There is a map option and a manual calculation option for determining soil loss. For the map option, the R factor for the project is calculated using the online calculator at

http://cfpub.epa.gov/npdes/stormwater/LEW/lewCalculator.cfm. The product of K and LS are shown on Figure 1. To determine soil loss in tons per acre, the discharger multiplies the R factor times the value for K times LS from the map.

Figure 4. Isoerodent Map of California



Note: Units for all maps on this page are hundreds ft-tonf-in(ac-h-yr).

# APPENDIX C

# **Permit Registration Documents**

# PRDs included in this Appendix:

Notice of Intent					
Risk Assessment					
Certification					
Post Construction Water Balance					
Copy of Annual Fee Receipt					
Site Maps (see Appendix A)					





#### **State Water Resources Control Board**

May 23, 2016

# Fee Statement Application Id # 472116

Facility/Site
AES Huntington Beach
21730 Newland St
Huntington Beach CA

Thank you for submitting Permit Registration Documents (PRDs) for the facility/site referenced above. The application fee for this submittal is \$659.00

Please note the application fee is due upon submittal of the PRDs. Permit coverage begins on receipt of payment and a WDID number is assigned. If payment is not received by July 22, 2016 the application will be automatically returned as incomplete.

Please make checks payable to: SWRCB

Mail this Fee Statement and \$659.00 to:

#### **Regular Mailing Address:**

SWRCB Storm Water Section PO Box 1977 Sacramento, CA 95812-1977

#### **Overnight Mailing Address:**

SWRCB Storm Water Section 1001 I Street – 15<sup>th</sup> Floor Sacramento, CA 95814

If you have questions or want to check on the status of the application, email us at stormwater@waterboards.ca.gov or call 1-866-563-3107.

Thank You, Storm Water Help Desk

FELICIA MARCUS, CHAIR | THOMAS HOWARD, EXECUTIVE OFFICER



State Water Resources Control Board

#### **NOTICE OF INTENT**



TO COMPLY WITH THE TERMS OF THE GENERAL PERMIT TO DISCHARGE STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY (WQ ORDER No. 99-08-DWQ)

I. NOI STATUS (SEE INSTRUCTIONS)								
MARK ONLY ONE ITEM 1. New C	onstruction 2. $\square$ Char	nge of Ir	nformat	ion for WDID#				]
II. PROPERTY OWNER								
Name		Contac	t Persoi	n				
Mailing Address		Title						
City		State	Zip		l P	Phone		
			ŗ		(	( )		
III. DEVELOPER/CONTRACTOR INFO	RMATION							
Developer/Contractor	WIATION	Contac	t Persor	n				
Mailing Address		Title						
City		State	Zip			Phon	ne	
			ļ			(	)	
IV. CONSTRUCTION PROJECT INFOR	MATION							
Site/Project Name		Site Co	ontact Po	erson				
Physical Address/Location		Latitude Longitude Co			County	unty		
City (or nearest City)		Zip		Site Phone Nu	ımber		Emergency Phone Number	
A. Total size of construction site area:	C. Percent of site imperviousness	(includir				( )		
Acres  B. Total area to be disturbed:	Before Construction:					Tract Number(s):,		
Acres (% of total)	After Construction:	% E. Mile Post Marker:				arker:		
F. Is the construction site part of a larger common		G. Na	me of pl	an or developme	ent:			
		J. Projected construction dates:						
H. Construction commencement date:/		Complete grading:/ Complete project:/						
I. % of site to be mass graded:  K. Type of Construction (Check all that apply):								
1. Residential 2. Comme	rcial 3. Industrial	4.	Red	construction	5.	☐ Tran	nsportation	
6. Utility Description:				_ist):				
V. BILLING INFORMATION								
SEND BILL TO: Name OWNER (as in II. above)					C	Contact Pe	erson	
DEVELOPER Mailing Address					P	Phone/Fax	(	
(as in III. above)					S	State	Zip	
CHER (enter information at right)								

VI.	REG	ULATOR	Y STATUS					
A.	Has	a local agen	cy approved a required erosion/sediment control plan?			□ NO		
	Does	the erosion	/sediment control plan address construction activities such as infrastructure and structures?		YES	□ NO		
	Name	e of local ag	ency: Phone: ( )					
В.	Is this	s project or a	ny part thereof, subject to conditions imposed under a CWA Section 404 permit of 401 Water Quality Certification?		\( \sum_{YES} \)	□ No		
		, p. 0,000 0. 0	ny paramatany ampiatra dia mandra mpamba arabi a dia mandra mandra mandra mandra dia mandra dia mandra mandra m					
	If yes	s, provide de	tails:					
VII.	RFC	EFIVING V	WATER INFORMATION					
_			water runoff from the construction site discharge to (Check all that apply):					
	1.		Indirectly to waters of the U.S.					
	2.	П	Storm drain system - Enter owner's name:					
	3.	_	Directly to waters of U.S. (e.g., river, lake, creek, stream, bay, ocean, etc.)					
	<u> </u>		Enouty to maters of o.e. (e.g., fiver, lane, ereall, surface, etc.)					
В.	Nam	ne of receiv	ing water: (river, lake, creek, stream, bay, ocean):					
<u> </u>								
			ATION OF NPDES PERMIT REQUIREMENTS					
Α.	STO	RM WATE	R POLLUTION PREVENTION PLAN (SWPPP) (check one)					
		A SWPPP	has been prepared for this facility and is available for review: Date Prepared:/	Date Amend	ded:/_	/		
		A SWPPP	will be prepared and ready for review by (enter date):					
			e schedule has been included in the SWPPP for activities such as grading, street construction, home co	onstruction, e	etc.			
В.	MON	ITORING PF						
			ing and maintenance schedule has been developed that includes inspection of the construction BMPs before d storm events and is available for review.					
			d above: A qualified person has been assigned responsibility for pre-storm and post-storm BMP inspections effectiveness and necessary repairs or design changes	YES	□ NO			
		Name:	Phone: ( )					
C.	PERM	MIT COMPL	ANCE RESPONSIBILITY		<u> </u>			
		alified perso ention Plan i	n has been assigned responsibility to ensure full compliance with the Permit, and to implement all elements of the Sto ncluding:	rm Water Polli	ution			
	1. P	reparing an	annual compliance evaluation	YES [	NO			
	N	ame:	Phone: ( )					
	2. El	iminating all	unauthorized discharges	YES	NO			
IX.	VICI	NITY MA	P AND FEE (must show site location in relation to nearest named streets, intersections, etc.)					
			vicinity map with this submittal?	YES [	NO			
На	ive you	ı included pa	syment of the annual fee with this submittal?	]YES [	NO			
<u> </u>								
		IFICATIO						
a s pe to inf	"I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. In addition, I certify that the provisions of the permit, including the development and implementation of a Storm Water Pollution Prevention Plan and a Monitoring Program Plan will be complied with."							
Pri	inted I	Name:						
Sig	gnatur	e:	Date:					

Title:

# APPENDIX D

**SWPPP** Amendment Certifications

# Project Name: Project Number: Qualified SWPPP Developer's Certification of the **Stormwater Pollution Prevention Plan Amendment** "This Stormwater Pollution Prevention Plan and attachments were prepared under my direction to meet the requirements of the California Construction General Permit (SWRCB Order No. 2009-009-DWQ as amended by 2010-0014-DWQ). I certify that I am a Qualified SWPPP Developer in good standing as of the date signed below." QSD's Signature Date QSD Certificate Number QSD Name Title and Affiliation Telephone

**Email** 

Address

**SWPPP** Amendment No.

# APPENDIX E

**Submitted Changes to PRDs** 

#### **Log of Updated PRDs**

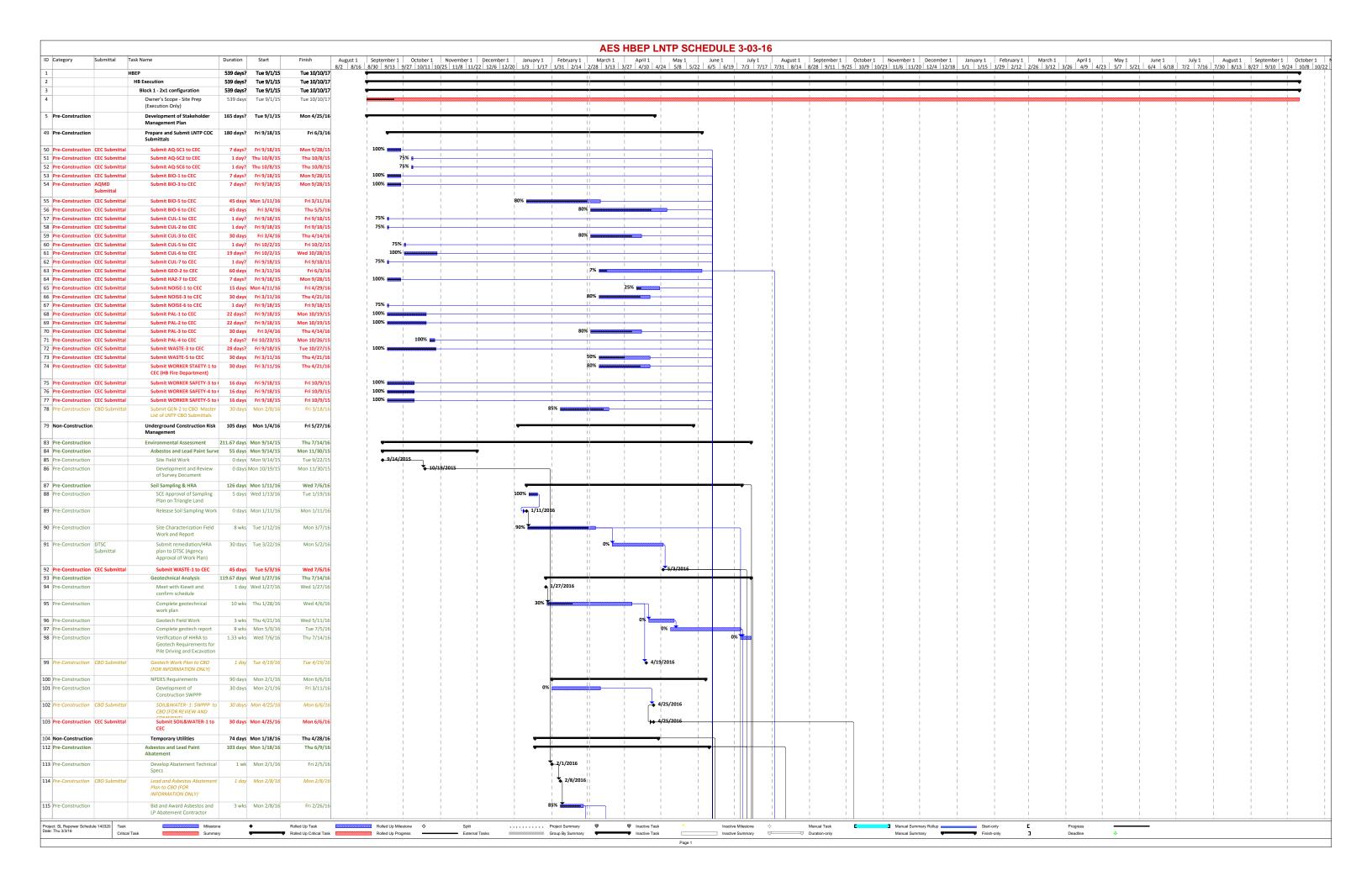
The General Permit allows for the reduction or increase of the total acreage covered under the General Permit when a portion of the project is complete and/or conditions for termination of coverage have been met; when ownership of a portion of the project is purchased by a different entity; or when new acreage is added to the project.

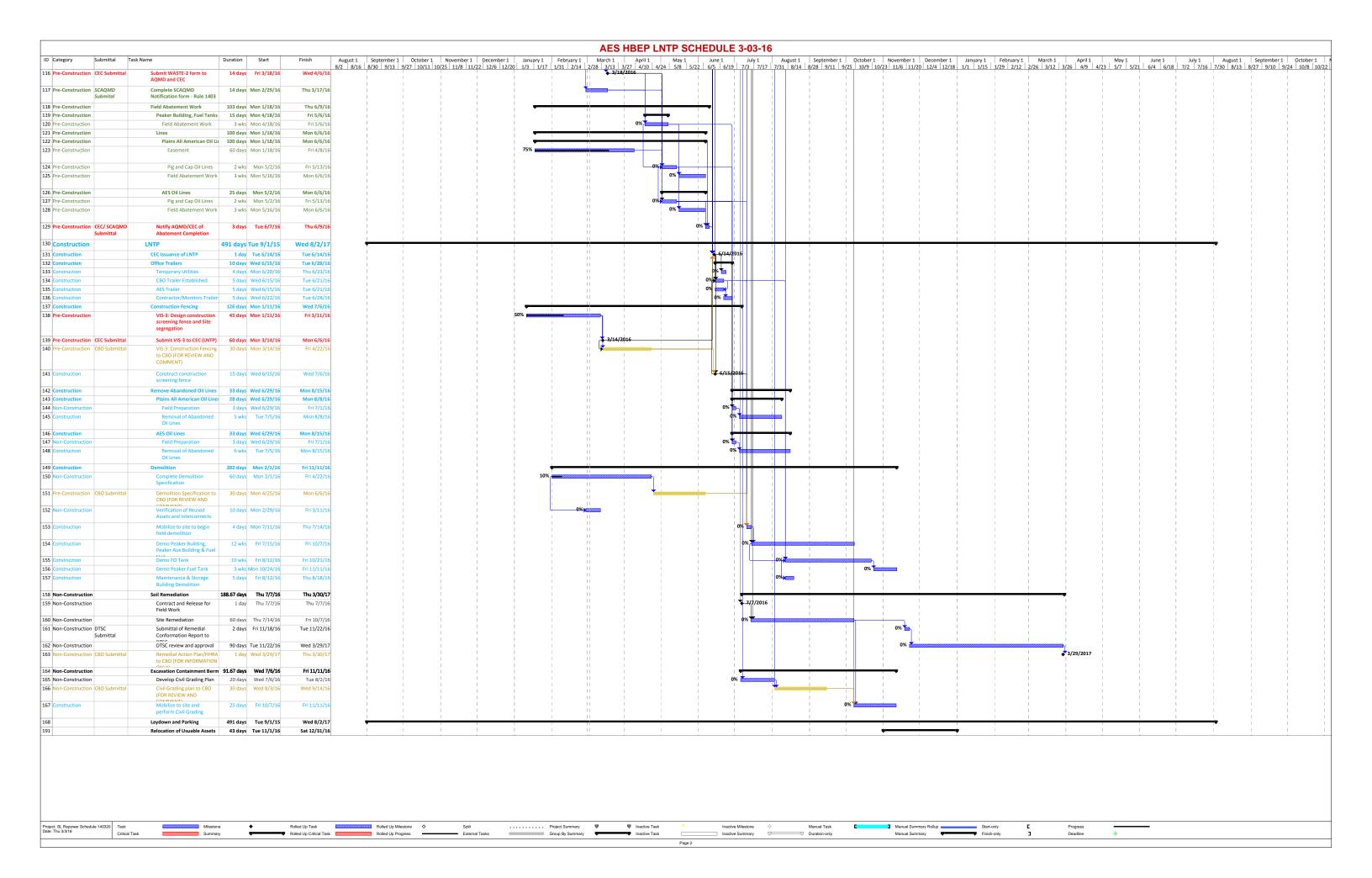
Modified PRDs shall be filed electronically within 30 days of a reduction or increase in total disturbed area if a change in permit covered acreage is to be sought. The SWPPP shall be modified appropriately, with revisions and amendments recorded in Appendix D. Updated PRDs submitted electronically via SMARTS can be found in this Appendix.

This appendix includes all of the following updated PRDs (c	heck all that apply):
Revised Notice of Intent (NOI);	
Revised Site Map;	
Revised Risk Assessment;	
New landowner's information (name, address, phone num	nber, email address); and
New signed certification statement.	
Legally Responsible Person [if organization]	
Signature of [Authorized Representative of] Legally Responsible Person or Approved Signatory	Date
ı rr rr zazı	
Name of [Authorized Representative of] Legally Responsible Person or Approved Signatory	Telephone Number

# APPENDIX F

**Construction Schedule** 





### Appendix F2 Project Key Milestones

Milestone	Original Planned Date
Contract Execution AFC 12-AFC-02	Nov-14
Lead and Asbestos Survey	Oct-15
Soil sampling and HRA	Jan-16
Geotechnical Analysis	March-16
Pipeline Cleaning and Capping	April-16
Lead and Asbestos Abatement	May-16
Limited Notice to Proceed (LNTP)	Jun-16
Mobilization	June-16
Tank Demolition	Jul-16
Peaker Demolition	Aug-16
12' Fence installation	Feb-17
Burm Demolition	March-17
Final Site cleanup and de-mobilization	April-17
Scheduled Completion Date	April-17

# APPENDIX G Construction Activities, Materials Used and Associated Potential Pollutants

Table G.a POTENTIAL POLLUTANTS ASSOCIATED WITH CONSTRUCTION ACTIVITIES

General Work Activity/ Products With Potential Stormwater Pollutants	Specific Work Activity/Products With Potential Stormwater Pollutants	Pollutant Categories
Asphalt paving/curbs	Hot and cold mix asphalt	Oil and Grease
Concrete / Masonry	<ul> <li>Cement and brick dust</li> <li>Colored chalks</li> <li>Concrete curing compounds</li> <li>Glazing compounds</li> <li>Surfaces cleaners</li> <li>Saw cut slurries</li> <li>Tile cutting</li> </ul>	Metals, Synthetic Organics
Drywall	Saw-cutting drywall	Metals
Insulation  Liquid waste	<ul> <li>Demolition or construction involving insulation, venting systems</li> <li>Wash waters</li> <li>Irrigation line testing/flushing</li> </ul>	Metals, Synthetic Organics  Metals, Synthetic Organics
Painting	Paint thinners, acetone, methyl ethyl ketone, stripper paints, lacquers, varnish, enamels, turpentine, gum spirit, solvents, dyes, stripping pigments and sanding	Metals, Synthetic Organics
Plumbing	<ul> <li>Solder (lead, tin), flux (zinc chloride), pipe fitting</li> <li>Galvanized metal in nails, fences, and electric wiring</li> </ul>	Metals, Synthetic Organics
Removal of existing structures	Demolition of asphalt, concrete, masonry, framing, roofing, metal structures.	Metals, Oil and Grease, Synthetic Organics

### Table G.a POLLUTANTS ASSOCIATED WITH CONSTRUCTION ACTIVITIES

General Work Activity/ Products With Potential Stormwater Pollutants	Specific Work Activity/Products With Potential Stormwater Pollutants	Pollutant Categories
Sanitary waste	<ul><li>Portable toilets</li><li>Disturbance of existing sewer lines.</li></ul>	Nutrients
Soil preparation/amendments	Use of soil additives/amendments	Nutrients
Solid waste	<ul><li> Litter, trash and debris</li><li> Vegetation</li></ul>	Gross Pollutants

Vehicle and equipment use	Equipment operation	Oil and Grease	
	• Equipment maintenance		
	<ul> <li>Equipment washing</li> </ul>		
Equipment fueling			
1 Symptotic Operation and defined in Table 1.2 of the CASOA Stammurgton PMD Handbook Poutal Construction of			

<sup>&</sup>lt;sup>1</sup> Synthetic Organics are defined in Table 1.2 of the CASQA *Stormwater BMP Handbook Portal: Construction* as adhesives, cleaners, sealants, solvents, etc. These are generally categorized as VOCs or SVOCs.

### APPENDIX H

**CASQA Stormwater BMP Handbook Portal: Construction Fact Sheets** 

### APPENDIX I

**BMP Inspection Form** 

### BMP INSPECTION REPORT

Date and Time of Insp	Date and Time of Inspection:		Date Repo	rt Written:	
Inspection Type: (Circle one)	Weekly Complete Parts I,II,III and VII	Comple	Storm ete Parts and VII	During Rain Even Complete Parts I, III, V, and VII	t Post-Storm  II, Complete Parts  I,II,III,VI and VII
Part I. General In	formation				
		Site Info	ormation		
Construction Site Nam	ne:				
Construction stage an completed activities:	d			Approximate area of site that is expe	
Photos Taken: (Circle one)	Yes		No	Photo Reference	IDs:
		Wea	ather		
Estimate storm beginn (date and time)	ning:		Estimate s (hours)	torm duration:	
Estimate time since la (days or hours)	st storm:		Rain gauge (in)	e reading and locati	on:
Is a "Qualifying Event" If yes, summarize fore	' predicted or did one od cast:	ccur (i.e., 0	.5" rain with	48-hrs or greater be	etween events)? (Y/N)
					e conducted). Visual additions such as flooding
Inspector Information					
Inspector Name: Inspector Title:					
Signature:			Da	te:	

Part II. BMP Observations. Describe deficiencies in Part III.			
Minimum BMPs for Risk Level Sites	Failures or other short comings (yes, no, N/A)	Action Required (yes/no)	Action Implemented (Date)
Good Housekeeping for Construction Materials			
Inventory of products (excluding materials designed to be outdoors)			
Stockpiled construction materials not actively in use are covered and bermed			
All chemicals are stored in watertight containers with appropriate secondary containment, or in a completely enclosed storage shed			
Construction materials are minimally exposed to precipitation			
BMPs preventing the off-site tracking of materials are implemented and properly effective			
Good Housekeeping for Waste Management			
Wash/rinse water and materials are prevented from being disposed into the storm drain system			
Portable toilets are contained to prevent discharges of waste			
Sanitation facilities are clean and with no apparent for leaks and spills			
Equipment is in place to cover waste disposal containers at the end of business day and during rain events			
Discharges from waste disposal containers are prevented from discharging to the storm drain system / receiving water			
Stockpiled waste material is securely protected from wind and rain if not actively in use			
Procedures are in place for addressing hazardous and non-hazardous spills			
Appropriate spill response personnel are assigned and trained			
Equipment and materials for cleanup of spills is available onsite			
Washout areas (e.g., concrete) are contained appropriately to prevent discharge or infiltration into the underlying soil			
Good Housekeeping for Vehicle Storage and Maintenance			
Measures are in place to prevent oil, grease, or fuel from leaking into the ground, storm drains, or surface waters			
All equipment or vehicles are fueled, maintained, and stored in a designated area with appropriate BMPs			
Vehicle and equipment leaks are cleaned immediately and disposed of properly			

Part II. BMP Observations Continued. Describe defic	ciencies in Part II	l.			
Minimum BMPs for Risk Level Sites	Adequately designed, implemented and effective (yes, no, N/A)	Action Required (yes/no)	Action Implemented (Date)		
Good Housekeeping for Landscape Materials					
Stockpiled landscape materials such as mulches and topsoil are contained and covered when not actively in use					
Erodible landscape material has not been applied 2 days before a forecasted rain event or during an event					
Erodible landscape materials are applied at quantities and rates in accordance with manufacturer recommendations					
Bagged erodible landscape materials are stored on pallets and covered					
Good Housekeeping for Air Deposition of Site Materials					
Good housekeeping measures are implemented onsite to control the air deposition of site materials and from site operations					
Non-Stormwater Management					
Non-Stormwater discharges are properly controlled					
Vehicles are washed in a manner to prevent non-stormwater discharges to surface waters or drainage systems					
Streets are cleaned in a manner to prevent unauthorized non- stormwater discharges to surface waters or drainage systems.					
Erosion Controls					
Wind erosion controls are effectively implemented					
Effective soil cover is provided for disturbed areas inactive (i.e., not scheduled to be disturbed for 14 days) as well as finished slopes, open space, utility backfill, and completed lots					
The use of plastic materials is limited in cases when a more sustainable, environmentally friendly alternative exists.					
Sediment Controls	•				
Perimeter controls are established and effective at controlling erosion and sediment discharges from the site					
Entrances and exits are stabilized to control erosion and sediment discharges from the site					
Sediment basins are properly maintained					
Linear sediment control along toe of slope, face of slope an at grade breaks (Risk Level 2 & 3 Only)					
Limit construction activity to and from site to entrances and exits that employ effective controls to prevent offsite tracking (Risk Level 2 & 3 Only)					

Ensure all storm, drain inlets and perimeter controls, runoff					
control BMPs and pollutants controls at entrances and exits are maintained and protected from activities the reduce their					
effectiveness (Risk Level 2 & 3 Only					
Inspect all immediate access roads	, ,	el 2 & 3			
Only)					
Run-On and Run-Off Controls					
Run-on to the site is effectively man from all disturbed areas.	aged and directo	ed away			
Other				,	
Are the project SWPPP and BMP plan u and being properly implemented?	up to date, availab	ole on-site			
			·		
Part III. Descriptions of BMF	P Deficiencie	S			
			irs Implemented:		
Deficiency			n within 72 hours of		on and,
Demoicricy	complete repairs as soon as possible.				
	Start Date		Action		
1.					
2.					
3.					
3.					
4					
4.					
Part IV. Additional Pre-Store					ng and
suspended materials, sheen, disc	coloration, turbi	idity, odors, a	ina source(s) or po		Jo NI/A
Yes, No, N/A					NO, IN/A
Do stormwater storage and containment areas have adequate freeboard? If no, complete Part III.					
Are drainage areas free of spills, leaks, or uncontrolled pollutant sources? If no, complete Part VII and describe below.					
Notes:					
		1.0.11		1	
Are stormwater storage and containme and describe below.	Are stormwater storage and containment areas free of leaks? If no, complete Parts III and/or VII and describe below.				

inclement weather, list the results of vi	Observations. If BMPs cannot be inspect isual inspections at all relevant outfalls, discles or visible sheen on the surface of dischargel.	harge points,
Outfall, Discharge Point, or Other Downst	tream Location	
Location	Description	

Notes:

Part VI. Additional Post-Storm Observations. Visually observe (inspect) stormwater discharges at all discharge locations within two business days (48 hours) after each qualifying rain event, and observe (inspect) the discharge of stored or contained stormwater that is derived from and discharged subsequent to a qualifying rain event producing precipitation of ½ inch or more at the time of discharge. Complete Part VII (Corrective Actions) as needed.  Discharge Location, Storage or Containment Area  Visual Observation		
	ve Actions Required. Identify additional Part III) above. Note if SWPPP change is requ	
Required Actions		Implementation Date

### APPENDIX J

**Project-Specific Rain Event Action Plan Template** 

Rain Event Action Plan (REAP)			
Date of REAP		WDID Number:	
Date Rain Predicted to Occur:		Predicted % chance of rain:	

Predicted Rain Event Triggered Actions
Below is a list of suggested actions and items to review for this project. Each active Trade should check all material storage areas, stockpiles, waste management areas, vehicle and equipment storage and maintenance, areas of active soil disturbance, and areas of active work to ensure the proper implementation of BMPs. Project-wide BMPs should be checked and crossreferenced to the BMP progress map.

	Trade or Activity	Su	ggested action(s) to perform / item(s) to review prior to rain event
	Information & Scheduling		Inform trade supervisors of predicted rain Check scheduled activities and reschedule as needed Alert erosion/sediment control provider Alert sample collection contractor (if applicable) Schedule staff for extended rain inspections (including weekends & holidays) Check Erosion and Sediment Control (ESC) material stock Review BMP progress map Other:
0	Material storage areas	0000	Material under cover or in sheds (ex: treated woods and metals) Perimeter control around stockpiles Other:
	Waste management areas		Dumpsters closed Drain holes plugged Recycling bins covered Sanitary stations bermed and protected from tipping Other:
	Trade operations		Exterior operations shut down for event (e.g., no concrete pours or paving) Soil treatments (e.g.,: fertilizer) ceased within 24 hours of event Materials and equipment (ex: tools) properly stored and covered Waste and debris disposed in covered dumpsters or removed from site Trenches and excavations protected Perimeter controls around disturbed areas Fueling and repair areas covered and bermed Other:
	Site ESC BMPs		Adequate capacity in sediment basins and traps Site perimeter controls in place Catch basin and drop inlet protection in place and cleaned Temporary erosion controls deployed Temporary perimeter controls deployed around disturbed areas and stockpiles Roads swept; site ingress and egress points stabilized Other:
0	Concrete rinse out area	0000	Adequate capacity for rain Wash-out bins covered Other:
0	Spill and drips	00000	All incident spills and drips, including paint, stucco, fuel, and oil cleaned Drip pans emptied Other:

	I certify under penalty of law that by me or under my direction or su	her forecast from the NOAA website to the REAP.  this Rain Event Action Plan (REAP) will be performed in accordance with the General Per pervision in accordance with a system designed to assure that qualified personnel properly nation submitted. Based on my inquiry of the persons who manage the system, or those	rmit
	gathered and evaluated the information persons directly responsible for games	nation submitted. Based on my inquiry of the persons who manage the system, or those athering the information, the information submitted is, to the best of my knowledge and be a ware that there are significant penalties for submitting false information, including the	elief,
	Ovalified SW/DDD Practitioner (Lie	Date:	
1	Qualified SWPPP Practitioner (Use ink please)		

### APPENDIX K

**Training Reporting Form** 

# Trained Contractor Personnel Log

# **Stormwater Management Training Log and Documentation**

Project Name: WDID #:		
Stormwater Management Topic: (ch	neck as appropriate)	
<ul> <li>□ Erosion Control</li> <li>□ Wind Erosion Control</li> <li>□ Non-Stormwater Management</li> <li>□ Stormwater Sampling</li> </ul>	☐ Sediment Control ☐ Tracking Control ☐ Waste Management and	Materials Pollution Control
Specific Training Objective:		
Location:	Date:	
Instructor:	Telephone:	
Course Length (hours):	_	
	r (Attach additional forms i	
Name	Company	Phone

As needed, add proof of external training (e.g., course completion certificates, credentials for QSP, QSD).

### APPENDIX L

**Responsible Parties** 

# Authorization of Approved Signatories

Project Name:	-				
WDID #:					
Name of Personnel	Project Role	Company	Signature	Date	
LRP's Signature		Da	te		
LRP Name and	<u>Γitle</u>	Te	lephone Number		

# Identification of QSP

Project Name:

WDID #:			
The following are QSPs associated with this project			
Name of Personnel <sup>(1)</sup>	Company	Date	

<sup>(1)</sup> If additional QSPs are required on the job site add additional lines and include information here

### **OPTIONAL**

# Authorization of Data Submitters

Project Name:				_
WDID #:				
Name of	Project Role	Company	Signature	Date
Personnel				
			<u> </u>	
Approved Sign	atory's Signature	Da	ate	
				<del></del>
Approved Sign	atory	Тє	elephone Number	
Name and Title	2			

### APPENDIX M

**Contractors and Subcontractors** 

### LIST OF CONTRACTORS AND SUBCONTRACTORS

Name	
Title	
Company	
Address	
Phone Number	
Number (24/7)	
Name	
Title	
Company	
Address	
Phone Number	
Number (24/7)	
Name	
Title	
Company	
Address	
Phone Number	
Number (24/7)	
Γ	
Name	
Title	
Company	
Address	
Phone Number	
Number (24/7)	
Name	
Title	
Company	
Address	
Phone Number	
Number (24/7)	

### APPENDIX N

**Construction General Permit** 

### APPENDIX O

**Glossary and Acronyms** 

# APPENDIX O Glossary

### **Active Areas of Construction**

All areas subject to land surface disturbance activities related to the project including, but not limited to, project staging areas, immediate access areas and storage areas. All previously active areas are still considered active areas until final stabilization is complete. [The construction activity Phases used in this General Permit are the Preliminary Phase, Grading and Land Development Phase, Streets and Utilities Phase, and the Vertical Construction Phase.]

### **Active Treatment System (ATS)**

A treatment system that employs chemical coagulation, chemical flocculation, or electrocoagulation to aid in the reduction of turbidity caused by fine suspended sediment.

### **Acute Toxicity Test**

A chemical stimulus severe enough to rapidly induce a negative effect; in aquatic toxicity tests, an effect observed within 96 hours or less is considered acute.

### **Air Deposition**

Airborne particulates from construction activities. .

### Approved Signatory

A person who has legal authority to sign, certify, and electronically submit Permit Registration Documents and Notices of Termination on behalf of the Legally Responsible Person.

### **Beneficial Uses**

As defined in the California Water Code, beneficial uses of the waters of the state that may be protected against quality degradation include, but are not limited to, domestic, municipal, agricultural and industrial supply; power generation; recreation; aesthetic enjoyment; navigation; and preservation and enhancement of fish, wildlife, and other aquatic resources or preserves.

### **Best Available Technology Economically Achievable (BAT)**

As defined by USEPA, BAT is a technology-based standard established by the Clean Water Act (CWA) as the most appropriate means available on a national basis for controlling the direct discharge of toxic and nonconventional pollutants to navigable waters. The BAT effluent limitations guidelines, in general, represent the best existing performance of treatment technologies that are economically achievable within an industrial point source category or subcategory.

### **Best Conventional Pollutant Control Technology (BCT)**

As defined by USEPA, BCT is a technology-based standard for the discharge from existing industrial point sources of conventional pollutants including biochemical oxygen demand (BOD), total suspended sediment (TSS), fecal coliform, pH, oil and grease.

### Best Professional Judgment (BPJ)

The method used by permit writers to develop technology-based NPDES permit conditions on a case-by-case basis using all reasonably available and relevant data.

### **Best Management Practices (BMPs)**

BMPs are scheduling of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants. BMPs also include treatment requirements, operating procedures, and practices to control site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

### **Chain of Custody (COC)**

Form used to track sample handling as samples progress from sample collection to the analytical laboratory. The COC is then used to track the resulting analytical data from the laboratory to the client. COC forms can be obtained from an analytical laboratory upon request.

### Coagulation

The clumping of particles in a discharge to settle out impurities, often induced by chemicals such as lime, alum, and iron salts.

### **Common Plan of Development**

Generally a contiguous area where multiple, distinct construction activities may be taking place at different times under one plan. A plan is generally defined as any piece of documentation or physical demarcation that indicates that construction activities may occur on a common plot. Such documentation could consist of a tract map, parcel map, demolition plans, grading plans or contract documents. Any of these documents could delineate the boundaries of a common plan area. However, broad planning documents, such as land use master plans, conceptual master plans, or broad-based CEQA or NEPA documents that identify potential projects for an agency or facility are not considered common plans of development.

### **Daily Average Discharge**

The discharge of a pollutant measured during any 24-hour period that reasonably represents a calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged during the day. For pollutants with limitations expressed in other units of measurement (e.g., concentration) the daily discharge is calculated as the average measurement of the pollutant

throughout the day (40 CFR 122.2). In the case of pH, the pH must first be converted from a log scale.

### **Debris**

Litter, rubble, discarded refuse, and remains of destroyed inorganic anthropogenic waste.

### **Direct Discharge**

A discharge that is routed directly to waters of the United States by means of a pipe, channel, or ditch (including a municipal storm sewer system), or through surface runoff.

### Discharger

The Legally Responsible Person (see definition) or entity subject to this General Permit

### Dose Rate (for ATS)

In exposure assessment, dose (e.g. of a chemical) per time unit (e.g. mg/day), sometimes also called dosage.

### **Drainage Area**

The area of land that drains water, sediment, pollutants, and dissolved materials to a common outlet.

### **Effluent**

Any discharge of water by a discharger either to the receiving water or beyond the property boundary controlled by the discharger.

### **Effluent Limitation**

Any numeric or narrative restriction imposed on quantities, discharge rates, and concentrations of pollutants which are discharged from point sources into waters of the United States, the waters of the contiguous zone, or the ocean.

### **Erosion**

The process, by which soil particles are detached and transported by the actions of wind, water, or gravity.

### **Erosion Control BMPs**

Vegetation, such as grasses and wildflowers, and other materials, such as straw, fiber, stabilizing emulsion, protective blankets, etc., placed to stabilize areas of disturbed soils, reduce loss of soil due to the action of water or wind, and prevent water pollution.

### **Field Measurements**

Testing procedures performed in the field with portable field-testing kits or meters.

### Final Stabilization

All soil disturbing activities at each individual parcel within the site have been completed in a manner consistent with the requirements in this General Permit.

### **First Order Stream**

Stream with no tributaries.

### **Flocculants**

Substances that interact with suspended particles and bind them together to form flocs.

### **Good Housekeeping BMPs**

BMPs designed to reduce or eliminate the addition of pollutants to construction site runoff through analysis of pollutant sources, implementation of proper handling/disposal practices, employee education, and other actions.

### **Grading Phase (part of the Grading and Land Development Phase)**

Includes reconfiguring the topography and slope including; alluvium removals; canyon cleanouts; rock undercuts; keyway excavations; land form grading; and stockpiling of select material for capping operations.

### Hydromodification

Hydromodification is the alteration of the hydrologic characteristics of coastal and non-coastal waters, which in turn could cause degradation of water resources. Hydromodification can cause excessive erosion and/or sedimentation rates, causing excessive turbidity, channel aggradation and/or degradation.

### **Identified Organisms**

Organisms within a sub-sample that is specifically identified and counted.

### **Inactive Areas of Construction**

Areas of construction activity that are not active and those that have been active and are not scheduled to be re-disturbed for at least 14 days.

### **Index Period**

The period of time during which bioassessment samples must be collected to produce results suitable for assessing the biological integrity of streams and rivers. Instream communities naturally vary over the course of a year, and sampling during the index period ensures that samples are collected during a time frame when communities are stable so that year-to-year consistency is obtained. The index period approach provides a cost-effective alternative to year-round sampling. Furthermore, sampling within the appropriate index period will yield results that are comparable to the assessment thresholds or criteria for a given region, which are established for the same index period. Because index

periods differ for different parts of the state, it is essential to know the index period for your area.

### K Factor

The soil erodibility factor used in the Revised Universal Soil Loss Equation (RUSLE). It represents the combination of detachability of the soil, runoff potential of the soil, and the transportability of the sediment eroded from the soil.

### Legally Responsible Person

The person who possesses the title of the land or the leasehold interest of a mineral estate upon which the construction activities will occur for the regulated site. For linear underground/overhead projects, it is in the person in charge of the utility company, municipality, or other public or private company or agency that owns or operates the LUP.

### **Likely Precipitation Event**

Any weather pattern that is forecasted to have a 50% or greater chance of producing precipitation in the project area. The discharger shall obtain likely precipitation forecast information from the National Weather Service Forecast Office (e.g., by entering the zip code of the project's location at <a href="http://www.srh.noaa.gov/forecast">http://www.srh.noaa.gov/forecast</a>).

### Maximum Allowable Threshold Concentration (MATC)

The allowable concentration of residual, or dissolved, coagulant/flocculant in effluent. The MATC shall be coagulant/flocculant-specific, and based on toxicity testing conducted by an independent, third-party laboratory. A typical MATC would be:

The MATC is equal to the geometric mean of the NOEC (No Observed Effect Concentration) and LOEC (Lowest Observed Effect Concentration) Acute and Chronic toxicity results for most sensitive species determined for the specific coagulant. The most sensitive species test shall be used to determine the MATC.

### **Natural Channel Evolution**

The physical trend in channel adjustments following a disturbance that causes the river to have more energy and degrade or aggrade more sediment. Channels have been observed to pass through 5 to 9 evolution types. Once they pass though the suite of evolution stages, they will rest in a new state of equilibrium.

### **Non-Storm Water Discharges**

Discharges are discharges that do not originate from precipitation events. They can include, but are not limited to, discharges of process water, air conditioner condensate, non-contact cooling water, vehicle wash water, sanitary wastes, concrete washout water, paint wash water, irrigation water, or pipe testing water.

### **Non-Visible Pollutants**

Pollutants associated with a specific site or activity that can have a negative impact on water quality, but cannot be seen though observation (ex: chlorine). Such pollutants being discharged are not authorized.

### **Numeric Action Level (NAL)**

Level is used as a warning to evaluate if best management practices are effective and take necessary corrective actions. Not an effluent limit.

### **Original Sample Material**

The material (i.e., macroinvertebrates, organic material, gravel, etc.) remaining after the subsample has been removed for identification.

### рН

Unit universally used to express the intensity of the acid or alkaline condition of a water sample. The pH of natural waters tends to range between 6 and 9, with neutral being 7. Extremes of pH can have deleterious effects on aquatic systems.

### **Post-Construction BMPs**

Structural and non-structural controls which detain, retain, or filter the release of pollutants to receiving waters after final stabilization is attained.

# Preliminary Phase (Pre-Construction Phase - Part of the Grading and Land Development Phase)

Construction stage including rough grading and/or disking, clearing and grubbing operations, or any soil disturbance prior to mass grading.

### **Project**

### **Qualified SWPPP Developer**

Individual who is authorized to develop and revise SWPPPs.

### **Qualified SWPPP Practitioner**

Individual assigned responsibility for non-storm water and storm water visual observations, sampling and analysis, and responsibility to ensure full compliance with the permit and implementation of all elements of the SWPPP, including the preparation of the annual compliance evaluation and the elimination of all unauthorized discharges.

### Qualifying Rain Event

Any event that produces 0.5 inches or more precipitation with a 48 hour or greater period between rain events.

### R Factor

Erosivity factor used in the Revised Universal Soil Loss Equation (RUSLE). The R factor represents the erosivity of the climate at a particular location. An

average annual value of R is determined from historical weather records using erosivity values determined for individual storms. The erosivity of an individual storm is computed as the product of the storm's total energy, which is closely related to storm amount, and the storm's maximum 30-minute intensity.

### **Rain Event Action Plan (REAP)**

Written document, specific for each rain event, that when implemented is designed to protect all exposed portions of the site within 48 hours of any likely precipitation event.

### Remaining Sub sampled Material

The material (e.g., organic material, gravel, etc.) that remains after the organisms to be identified have been removed from the subsample for identification. (Generally, no macroinvertebrates are present in the remaining subsampled material, but the sample needs to be checked and verified using a complete Quality Assurance (QA) plan)

### **Routine Maintenance**

Activities intended to maintain the original line and grade, hydraulic capacity, or original purpose of a facility.

### **Runoff Control BMPs**

Measures used to divert runon from offsite and runoff within the site.

### Run-on

Discharges that originate offsite and flow onto the property of a separate project site.

### Revised Universal Soil Loss Equation (RUSLE)

Empirical model that calculates average annual soil loss as a function of rainfall and runoff erosivity, soil erodibility, topography, erosion controls, and sediment controls.

### Sampling and Analysis Plan

Document that describes how the samples will be collected, under what conditions, where and when the samples will be collected, what the sample will be tested for, what test methods and detection limits will be used, and what methods/procedures will be maintained to ensure the integrity of the sample during collection, storage, shipping and testing (i.e., quality assurance/quality control protocols).

### Sediment

Solid particulate matter, both mineral and organic, that is in suspension, is being transported, or has been moved from its site of origin by air, water, gravity, or ice and has come to rest on the earth's surface either above or below sea level.

### **Sedimentation**

Process of deposition of suspended matter carried by water, wastewater, or other liquids, by gravity. It is usually accomplished by reducing the velocity of the liquid below the point at which it can transport the suspended material.

### **Sediment Control BMPs**

Practices that trap soil particles after they have been eroded by rain, flowing water, or wind. They include those practices that intercept and slow or detain the flow of storm water to allow sediment to settle and be trapped (e.g., silt fence, sediment basin, fiber rolls, etc.).

### Settleable Solids (SS)

Solid material that can be settled within a water column during a specified time frame. It is typically tested by placing a water sample into an Imhoff settling cone and then allowing the solids to settle by gravity for a given length of time. Results are reported either as a volume (mL/L) or a mass (mg/L) concentration.

### **Sheet Flow**

Flow of water that occurs overland in areas where there are no defined channels where the water spreads out over a large area at a uniform depth.

### Site

### Soil Amendment

Any material that is added to the soil to change its chemical properties, engineering properties, or erosion resistance that could become mobilized by storm water.

### Streets and Utilities Phase

Construction stage including excavation and street paving, lot grading, curbs, gutters and sidewalks, public utilities, public water facilities including fire hydrants, public sanitary sewer systems, storm sewer system and/or other drainage improvements.

### **Structural Controls**

Any structural facility designed and constructed to mitigate the adverse impacts of storm water and urban runoff pollution

### **Suspended Sediment Concentration (SSC)**

The measure of the concentration of suspended solid material in a water sample by measuring the dry weight of all of the solid material from a known volume of a collected water sample. Results are reported in mg/L.

### **Total Suspended Solids (TSS)**

The measure of the suspended solids in a water sample includes inorganic substances, such as soil particles and organic substances, such as algae,

aquatic plant/animal waste, particles related to industrial/sewage waste, etc. The TSS test measures the concentration of suspended solids in water by measuring the dry weight of a solid material contained in a known volume of a sub-sample of a collected water sample. Results are reported in mg/L.

### Toxicity

The adverse response(s) of organisms to chemicals or physical agents ranging from mortality to physiological responses such as impaired reproduction or growth anomalies.

### **Turbidity**

The cloudiness of water quantified by the degree to which light traveling through a water column is scattered by the suspended organic and inorganic particles it contains. The turbidity test is reported in Nephelometric Turbidity Units (NTU) or Jackson Turbidity Units (JTU).

### **Vertical Construction Phase**

The Build out of structures from foundations to roofing, including rough landscaping.

### Waters of the United States

Generally refers to surface waters, as defined by the federal Environmental Protection Agency in 40 C.F.R. § 122.2.1

### Water Quality Objectives (WQO)

Water quality objectives are defined in the California Water Code as limits or levels of water quality constituents or characteristics, which are established for the reasonable protection of beneficial uses of water or the prevention of nuisance within a specific area.

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<sup>&</sup>lt;sup>1</sup> The application of the definition of "waters of the United States" may be difficult to determine; there are currently several judicial decisions that create some confusion. If a landowner is unsure whether the discharge must be covered by this General Permit, the landowner may wish to seek legal advice.

# **APPENDIX O:** Acronym List

ASBS Areas of Special Biological Significance

ASTM American Society of Testing and Materials; Standard Test

Method for Particle-Size Analysis of Soils

ATS Active Treatment System

BASMAA Bay Area Storm water Management Agencies Association

BAT Best Available Technology Economically Achievable

BCT Best Conventional Pollutant Control Technology

BMP Best Management Practices
BOD Biochem ical Oxygen Demand

BPJ Best Professional Judgment

CAFO Confined Animal Feeding Operation
CCR California Code of Regulations
CEQA California Environmental Quality Act

CFR Code of Federal Regulations

CGP NPDES General Permit for Storm Water Discharges

Associated with Construction Activities

CIWQS California Integrated Water Quality System

CKD Cement Kiln Dust COC Chain of Custody

CPESC Certified Professional in Erosion and Sediment Control

CPSWQ Certified Professional in Storm Water Quality

CSMP Construction Site Monitoring Program

CTB Cement Treated Base
CTR California Toxics Rule
CWA Clean Water Act

CWC California Water Code

CWP Center for Watershed Protection
DADMAC Diallyldimethyl-ammonium chloride

DDNR Delaware Department of Natural Resources

DFG Department of Fish and Game
DHS Department of Health Services
DWQ Division of Water Quality

DWQ Division of Water Quality EC Electrical Conductivity

ELAP Environmental Laboratory Accreditation Program

EPA Environmental Protection Agency
ESA Environmentally Sensitive Area
ESC Erosion and Sediment Control

HSPF Hydrologic Simulation Program Fortran

JTU Jackson Turbidity Units
LID Low Impact Development

LOEC Lowest Observed Effect Concentration

LRP Legally Responsible Person

LUP Linear Underground/Overhead Projects

1

MATC Maximum Allowable Threshold Concentration

MDL Method Detection Limits

MRR Monitoring and Reporting Requirements
MS4 Municipal Separate Storm Sewer System
MUSLE Modified Universal Soil Loss Equation

NAL Numeric Action Level
NEL Numeric Effluent Limitation

NICET National Institute for Certification in Engineering

**Technologies** 

NOAA National Oceanic and Atmospheric Administration

NOEC No Observed Effect Concentration

NOI Notice of Intent
NOT Notice of Termination

NPDES National Pollutant Discharge Elimination System

NRCS Natural Resources Conservation Service

NTR National Toxics Rule

NTU Nephelometric Turbidity Units
O&M Operation and Maintenance
PAC Polya luminum chloride

PAM Polyacryla mide

PASS Polya luminum chloride Silica/sulfate

POC Pollutants of Concern PoP Probability of Precipitation

POTW Publicly Owned Treatment Works PRDs Permit Registration Documents

PWS Planning Watershed

QAMP Quality Assurance Management Plan QA/QC Quality Assurance/Quality Control

REAP Rain Event Action Plan

Regional Board Regional Water Quality Control Board

ROWD Report of Waste Discharge

RUSLE Revised Universal Soil Loss Equation

RW Receiv ing Water

SMARTS Storm water Multi Application Reporting and Tracking

System

SS Settleable Solids

SSC Suspended Sediment Concentration

SUSMP Standard Urban Storm Water Mitigation Plan

SW Storm Water

SWARM Storm Water Annual Report Module

SWAMP Surface Water Ambient Monitoring Program

SWMM Storm Water Management Model
SWMP Storm Water Management Program
SWPPP Storm Water Pollution Prevention Plan

TC Treatment Control
TDS Total Dissolved Solids

TMDL Total Maximum Daily Load TSS Total Suspended Solids

USACOE U.S. Army Corps of Engineers

USC United States Code

USEPA United States Environmental Protection Agency

USGS United States Geological Survey

WDID Waste Discharge Identification Number

WDR Waste Discharge Requirements

WLA Waste Load Allocation WET Whole Effluent Toxicity

WRCC Western Regional Climate Center

WQBEL Water Quality Based Effluent Limitation

WQO Water Quality Objective WQS Water Quality Standard

## APPENDIX E AIR QUALITY

## AQCMP Compliance Form

## Description of Construction Equipment Used Onsite

Equipment Type	Model Year	Manufacturer	Horsepower	EPA/ARB Engine Tier
Generator	04/2013	Denyo Manufacturing	34.3	41
Air compressor	3/2015	Kaeser	44.3	41
Engine Welder	2015	Lincoln Electric	24.7	4
Backhoe	2014	CASE	110	41

### **Asbestos and Lead Abatement Generator Run Hours**

**Generator Run Hours** 

July-16

Date	Start Time	End time	Run hours	Run Hour Counter
			Initial Hours	2127.2
7/1/2016	0:00	0:00	0.00	2127.2
7/2/2016	0:00	0:00	0.00	2127.2
7/3/2016	0:00	0:00	0.00	2127.2
7/4/2016	0:00	0:00	0.00	2127.2
7/5/2016	0:00	0:00	0.00	2127.2
7/6/2016	0:00	0:00	0.00	2127.2
7/7/2016	0:00	0:00	0.00	2127.2
7/8/2016	0:00	0:00	0.00	2127.2
7/9/2016	0:00	0:00	0.00	2127.2
7/10/2016	0:00	0:00	0.00	2127.2
7/11/2016	0:00	0:00	0.00	2127.2
7/12/2016	0:00	0:00	0.00	2127.2
7/13/2016	0:00	0:00	0.00	2127.2
7/14/2016	0:00	0:00	0.00	2127.2
7/15/2016	0:00	0:00	0.00	2127.2
7/16/2016	0:00	0:00	0.00	2127.2
7/17/2016	0:00	0:00	0.00	2127.2
7/18/2016	0:00	0:00	0.00	2127.2
7/19/2016	0:00	0:00	0.00	2127.2
7/20/2016	0:00	0:00	0.00	2127.2
7/21/2016	0:00	0:00	0.00	2127.2
7/22/2016	0:00	0:00	0.00	2127.2
7/23/2016	0:00	0:00	0.00	2127.2
7/24/2016	0:00	0:00	0.00	2127.2
7/25/2016	0:00	0:00	0.00	2127.2
7/26/2016	0:00	0:00	0.00	2127.2
7/27/2016	0:00	0:00	0.00	2127.2
7/28/2016	0:00	0:00	0.00	2127.2
7/29/2016	0:00	0:00	0.00	2127.2
7/30/2016	0:00	0:00	0.00	2127.2
7/31/2016	0:00	0:00	0.00	2127.2

Run hours for the Month (Hrs)

0.0

No run hours in the Month of July

## Fuel Log

## Asbestos and Lead Abatement Work scope

Jul-16

Date	Gallons	Fuel Type	Supplier
Tuesday, July 05, 2016	19	Diesel	Argus

Final filling prior to returning rental - No run hours in July.

## July Fuel Receipts

Washington 76 11025 Washington Blvd. Whittier, Ca. 90606

WASHINGTON 76 00058631854 11025 WASHINGTON B WHITTIER , CA 07/05/2016 601049413 12:40:55 PM

8522 WEX

INVOICE 123611 AUTH 00-248349 REF720100705161236 ODO 5750

PUMP# 9 DIESEL 2 CR 19.116G PRICE/GAL \$3.859

FUEL TOTAL \$ 73.77

CREDIT \$ 73.77

Batch: 72 Seq Num: 10

Term ID: 9

Vehicle Card Number: 07081

Workstation ID: 00 WANT FREE GAS? REGISTER TO WIN AT WWW.GASVISIT.COM

Complete A Survey

### W.A. Rasic Fuel oil line cleaning and Capping

Run Hours July-16

Equipment: Air Compressor Make/Model: KAESER M50

Serial number: 2381

Date	Start Time	End time	Run hours	Run Hour Counter
			Initial Hours	225.2
7/1/2016	0:00	0:00	0.00	0.0
7/2/2016	0:00	0:00	0.00	0.0
7/3/2016	0:00	0:00	0.00	0.0
7/4/2016	0:00	0:00	0.00	0.0
7/5/2016	0:00	0:00	0.00	0.0
7/6/2016	0:00	0:00	0.00	0.0
7/7/2016	0:00	0:00	0.00	0.0
7/8/2016	0:00	0:00	0.00	0.0
7/9/2016	0:00	0:00	0.00	0.0
7/10/2016	0:00	0:00	0.00	0.0
7/11/2016	0:00	0:00	0.00	0.0
7/12/2016	0:00	0:00	0.00	0.0
7/13/2016	0:00	0:00	0.00	0.0
7/14/2016	0:00	0:00	0.00	0.0
7/15/2016	0:00	0:00	0.00	0.0
7/16/2016	0:00	0:00	0.00	0.0
7/17/2016	0:00	0:00	0.00	0.0
7/18/2016	0:00	0:00	0.00	0.0
7/19/2016	0:00	0:00	0.00	0.0
7/20/2016	0:00	0:00	0.00	0.0
7/21/2016	0:00	0:00	0.00	0.0
7/22/2016	0:00	0:00	0.00	0.0
7/23/2016	0:00	0:00	0.00	0.0
7/24/2016	0:00	0:00	0.00	0.0
7/25/2016	0:00	0:00	0.00	225.2
7/26/2016	0:00	0:00	0.00	225.2
7/27/2016	0:00	0:00	0.00	225.2
7/28/2016	0:00	0:00	0.00	225.2
7/29/2016	0:00	0:00	0.00	225.2
7/30/2016	0:00	0:00	0.00	225.2
7/31/2016	0:00	0:00	0.00	225.2

Run hours for the Month (Hrs)

0.0

Equipment mobilized to site on July 25, 2016

No run hours in the Month of July

### W.A. Rasic Fuel oil line cleaning and Capping

Run Hours July-16

Equipment: Engine Driven Welder Make/Model: Lincoln SAE-300 HE

Serial number: C1141001928

Date	Start Time	End time	Run hours	Run Hour Counter
			Initial Hours	543.0
7/1/2016	0:00	0:00	0.00	0.0
7/2/2016	0:00	0:00	0.00	0.0
7/3/2016	0:00	0:00	0.00	0.0
7/4/2016	0:00	0:00	0.00	0.0
7/5/2016	0:00	0:00	0.00	0.0
7/6/2016	0:00	0:00	0.00	0.0
7/7/2016	0:00	0:00	0.00	0.0
7/8/2016	0:00	0:00	0.00	0.0
7/9/2016	0:00	0:00	0.00	0.0
7/10/2016	0:00	0:00	0.00	0.0
7/11/2016	0:00	0:00	0.00	0.0
7/12/2016	0:00	0:00	0.00	0.0
7/13/2016	0:00	0:00	0.00	0.0
7/14/2016	0:00	0:00	0.00	0.0
7/15/2016	0:00	0:00	0.00	0.0
7/16/2016	0:00	0:00	0.00	0.0
7/17/2016	0:00	0:00	0.00	0.0
7/18/2016	0:00	0:00	0.00	0.0
7/19/2016	0:00	0:00	0.00	0.0
7/20/2016	0:00	0:00	0.00	0.0
7/21/2016	0:00	0:00	0.00	0.0
7/22/2016	0:00	0:00	0.00	0.0
7/23/2016	0:00	0:00	0.00	0.0
7/24/2016	0:00	0:00	0.00	0.0
7/25/2016	0:00	0:00	0.00	543.0
7/26/2016	0:00	0:00	0.00	543.0
7/27/2016	0:00	0:00	0.00	543.0
7/28/2016	0:00	0:00	0.00	543.0
7/29/2016	0:00	0:00	0.00	543.0
7/30/2016	0:00	0:00	0.00	543.0
7/31/2016	0:00	0:00	0.00	543.0

Run hours for the Month (Hrs)

0.0

Equipment mobilized to site on July 25, 2016

No run hours in the Month of July

## W.A. Rasic Fuel oil line cleaning and Capping

Run Hours July-16

Equipment: Backhoe Loader Make/Model: CASE 590SM

Serial number: JJGN59SNCEC711133

Date	Start Time	End time	Run hours	Run Hour Counter
			Initial Hours	169.3
7/1/2016	0:00	0:00	0.00	0.0
7/2/2016	0:00	0:00	0.00	0.0
7/3/2016	0:00	0:00	0.00	0.0
7/4/2016	0:00	0:00	0.00	0.0
7/5/2016	0:00	0:00	0.00	0.0
7/6/2016	0:00	0:00	0.00	0.0
7/7/2016	0:00	0:00	0.00	0.0
7/8/2016	0:00	0:00	0.00	0.0
7/9/2016	0:00	0:00	0.00	0.0
7/10/2016	0:00	0:00	0.00	0.0
7/11/2016	0:00	0:00	0.00	0.0
7/12/2016	0:00	0:00	0.00	0.0
7/13/2016	0:00	0:00	0.00	0.0
7/14/2016	0:00	0:00	0.00	0.0
7/15/2016	0:00	0:00	0.00	0.0
7/16/2016	0:00	0:00	0.00	0.0
7/17/2016	0:00	0:00	0.00	0.0
7/18/2016	0:00	0:00	0.00	0.0
7/19/2016	0:00	0:00	0.00	0.0
7/20/2016	0:00	0:00	0.00	0.0
7/21/2016	0:00	0:00	0.00	0.0
7/22/2016	0:00	0:00	0.00	0.0
7/23/2016		0:00	0.00	0.0
7/24/2016		0:00	0.00	0.0
7/25/2016	0:00	0:00	0.00	169.3
7/26/2016	0:00	0:00	0.00	169.3
7/27/2016	0:00	0:00	0.00	169.3
7/28/2016	0:00	0:00	0.00	169.3
7/29/2016	0:00	0:00	0.00	169.3
7/30/2016	0:00	0:00	0.00	169.3
7/31/2016	0:00	0:00	0.00	169.3

Run hours for the Month (Hrs)

0.0

Equipment mobilized to site on July 25, 2016

No run hours in the Month of July

## Fuel Log

## W.A. Rasic Fuel oil line cleaning and Capping

Jul-16

Date	Gallons	Fuel Type	Supplier
	No fuel usa	age for the mor	nth of July

# APPENDIX F WORKER ENVIRONMENTAL AWARENESS PROGRAM

# WORKER ENVIRONMENTAL AWARENESS PROGRAM TRAINING ACKNOWLEDGEMENT

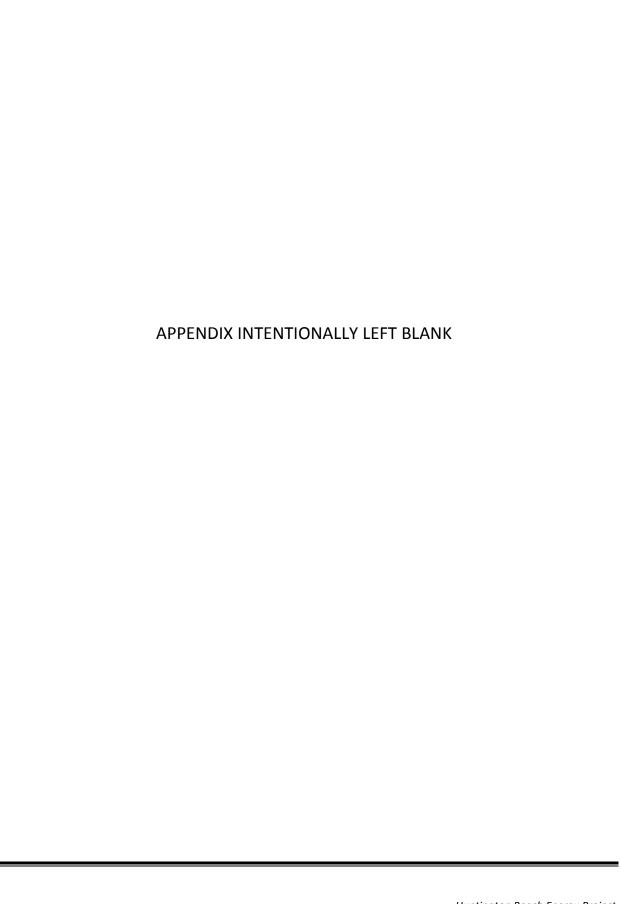
### **AES Huntington Beach Energy Project**

Please note: By Signing below, I acknowledge that I have received training at an education session prior to starting work on this project. During that session, I was provided information regarding the biological, cultural, and paleontological resources within the project area.

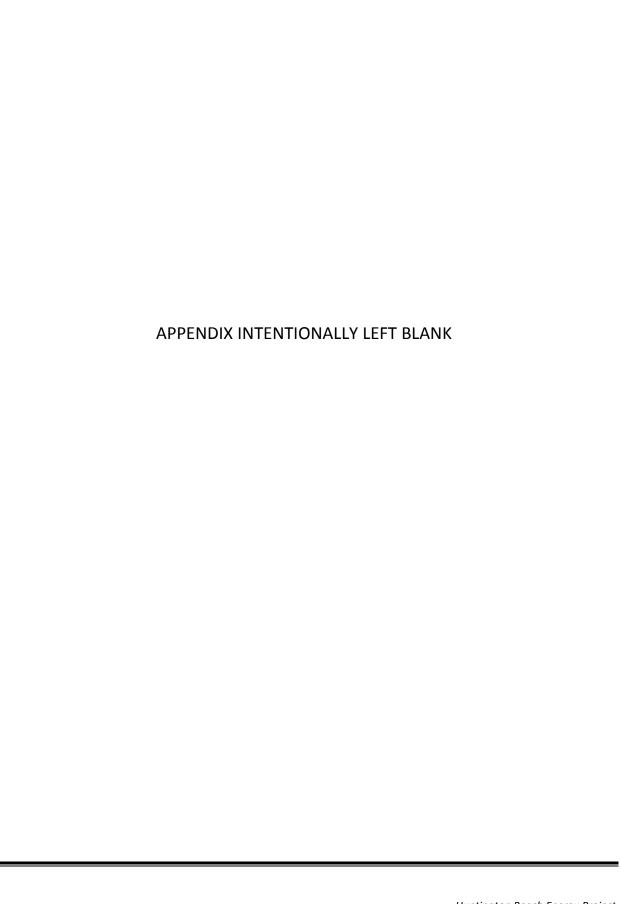
I, the undersigned individual, have read and understand the compliance measures and agree to comply with all provisions of the program. I am aware that I may incur civil and/or criminal penalties if I do not conform to the required measures.

Date	Trainee (Print Name)	Trainee Affiliation	Trainee Signature	Trainer
07:25.2016	JONATHAN TOWER	KVAC	79h	Graco ayuin
	Guillermo Jimes	o unal	M. gimerel	
7/25/16	Albert Bollog	was	Will the	
7-25-16	Daniel Tawegui	K-Vac	Dan Jang	
7-25-16	Ronad Esparza	KVac	Randelde	
9/25/14	Angel Camacho	KVAC .	ACI	
7-25-16	Chris Harris	WH Agsic	Chris	
7-25-16	Adam Olyanz	WiAi Ragic	All Oxing	
7-25/6	JAMES VILZ	K, VAC	A COLO	
7-25-16	Rodney bronsend	KVac /	Aca D	
725 16	Argodo Agista	Kuga	JAM	
7-25-16	COSE Agruyo	KMAC ENV.	1	
7-25-16	Soul Bentera	W X Rasic -		
7-25-16	John Kerr	WARISIC	(It	
7-25-16	Many Cony	WA ROSIC	Mile	
7-25-16	Mike Lee	W.A. PASIC	migra	
7-25-16	Robert Salagin	W.A. Rage	Red SI	
7-25-16	Walter Gwillen	W-A Rasic	Walter Sh	
7-25-16	Jack Oak	W.A. Rasic	SAL	
7-25-16	John Emerson	W.A. Rosid	W. M. Ou	
				7

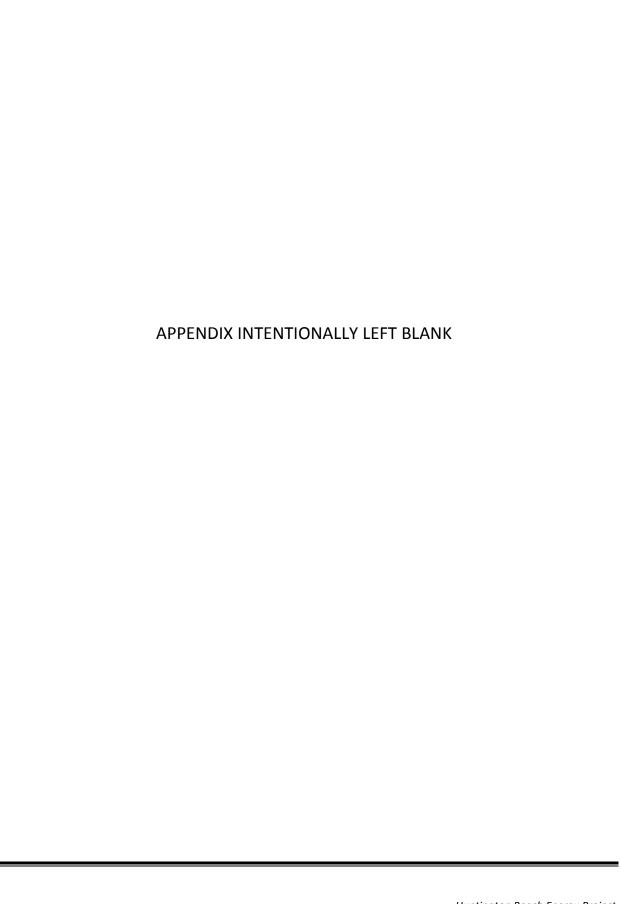
# APPENDIX G BIOLOGICAL RESOURCES MONTHLY SUMMARY REPORT



# APPENDIX H CULTURAL RESOURCES MONTHLY SUMMARY REPORT



# APPENDIX I PALEONTOLOGICAL RESOURCES MONTHLY SUMMARY REPORT



## APPENDIX J WORKER SAFETY

# CONTRACTOR SAFETY OREIENTATION TRAINING ACKNOWLEDGEMENT

### **AES Huntington Beach Energy Project**

#### **Proof of Contractor Orientation**

**Please note:** By Signing below, I acknowledge that I have read or been made aware of the rules as set forth in the AES Huntington Beach Energy Project Contractor Safety Orientation Program. I also agree to abide by all terms and conditions of the AES Huntington Beach Energy Project Contractor Safety program.

Date	Trainee (Print Name)	Trainee Affiliation	Trainee Signature	Trainer
07.25.2016	JONATHAN THERE	KVAC	John.	01080-WATE
07-25/16	Guillermo Jima	er K-Val	18. Timere	
07-25-16	Albert Exbog	II-VUC	44 5	
07-25-16	Danel Javregui	K-Vac	A fougi	
7-25-16	1 / h	12 VAC	Randelline	
7-25-16	Angel Camache	KVAC	9	
7-25-16	Chris Harris	WARRYC	your	
7-25-16	Adam Olrvarez	W.A. Rasic	March	
725-16	JAMES Velox	K. VAC	Alle	
7-25-16	Koolney Townsend	Ryar /	AGN	
7-25-16	Affredo Agrico	Kvac.	Jas	
7.5-16	Close Agrayo	KIME EN.	Man	
7-25-16	Soul Renteria	workasic		
7-25-16	John Kenn	WARRAS'C	( 1	
7-25 -16	Many Cry	WARGE, C	Turk	
7/25/16	Mile Lee	W.A. RISIC	more	
7-25-16	Richard Sahagin	W.A. Rasic	RUCS	
7-25-16	Welter Guillen	W.H. Rasic	Welte I Dela	
7-25-16	Jack Qurk	W.A. Rasic	The state of the s	
7-25-16	John Emerson	W.A. Rosic	IN M. Our	
				र्य

## Safety Observations

Project Name: HB - Owners Scope

Project Number: SLOS-HB

8/3/2016

1 10/0	ect Number:	OLOO TID	Creator										Days taken to
Record No.	Category	Title	Company	Creator	Observation Class	Observation Type	Priority	Status	Creation Date	End Date	Observation	Action Taken	Close
SO-0046	Safety	160623 Grounding of generator		EJ Penewell	Audit Finding	Electrical Safety	High	Closed	7/1/2016	7/1/2016	Found portable generator operating at supply fuel piping abatement area on north side of F.O. tank.	Audit of equipment showed it was grounded and operating appropriately and OSHA regulations.	0
SO-0049	Safety	160630 Hand wash station leaking	AES	EJ Penewell	Unsafe Condition	Housekeeping	Medium	Closed	7/1/2016	7/1/2016	Hand wash station is leaking water on ground.	Notified Argus of leaking hand wash station.	0
SO-0050	Safety	160701 Edison people and Equipment on site	AES	EJ Penewell	Positive Observation	Transportation/Driving	Low	Closed	7/12/2016	7/12/2016	Morning Edison equipment on site.	Discussed with contractors at JSA morning meeting.	0
SO-0051	Safety	1650701 Tank decon complete removing scaffold	AES	EJ Penewell	Positive Observation	Scaffolding	Medium	Closed	7/12/2016	7/12/2016	Safway is ready to remove scaffolding.	Scaffold removal has begun	0
SO-0052	Safety	160705 Scaffold removal	AES	EJ Penewell	Positive Observation	Scaffolding	High	Closed	7/12/2016	7/12/2016	Scaffold removal is continuing on large tank.	Removal is being done while using fall protection.	0
SO-0053	Safety	160706 Inspection of lift truck	AES	EJ Penewell	Audit Finding	Transportation/Driving	High	Closed	7/12/2016	7/12/2016	Lift truck being used to remove scaffold from F.O. tank.	Audited daily inspection log.	0
SO-0054	Safety	160707 Removal of scaffolding	AES	EJ Penewell	Positive Observation	Scaffolding	High	Closed	7/12/2016	7/12/2016	Scaffold removal is nearly complete.	Stacking removed scaffolding for loading on truck.	0
SO-0055	Safety	160708 Lift truck Operator	AES	EJ Penewell	Positive Observation	Transportation/Driving	High	Closed	7/12/2016	7/12/2016	Lift truck operator loading material.	Operator is following safety rules and I verified seat belt is being worn.	0
SO-0056	Safety	160708 Hand wash station has been repaired	AES	EJ Penewell	Audit Finding	Housekeeping	Medium	Closed	7/12/2016	7/12/2016	Hand wash station is leaking.	Contacted National Rentals to repair.	0
SO-0057	Safety	160711 Tank abatement is complete	AES	EJ Penewell	Positive Observation	Other	Medium	Closed	7/12/2016	7/12/2016	Large tank is now abated.	Provided report of results with photos.	0
SO-0058	Safety	160712 Large tank name plate	AES	EJ Penewell	Audit Finding	Equipment/Tools	Low	Closed	7/12/2016	7/12/2016	Found name plate on large tank, Chicago Bridge & Iron 1960.	Took pictures for record.	0
SO-0059	Safety	160727 W A Rasic delivery equipment	AES	EJ Penewell	Positive Observation	Induction & Training	Medium	Closed	7/29/2016	7/29/2016	W A Rasic decon and abatement of fuel oil pipping job walk and verification of area	Followed procedures as written and modify as necessary.	0
SO-0060	Safety	160727 GSD Orientation and Job over	AES	EJ Penewell	Positive Observation	Induction & Training	Medium	Closed	7/29/2016	7/29/2016	GSD demo contractor was introduced to site and did orientation.	Overview of site with map and job walk.	0
SO-0061	Safety	160729 Welding pipe covers by Rasic	AES	EJ Penewell	Positive Observation	Hot Work	High	Closed	7/29/2016	7/29/2016	Contractor welding covers for fuel pipe line.	Welded covers as required by project.	0

## Worker Safety - 5

Project: AES Huntington Beach Energy Project

Docket #: <u>12-AFC-02</u>

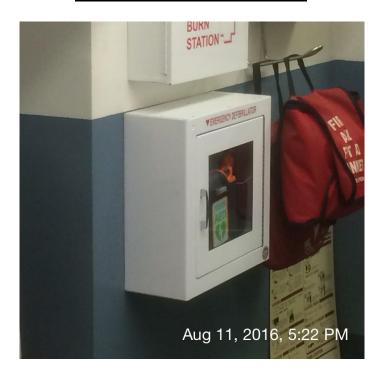
Updated: August 11, 2016

The following 3 AED's are located on the AES Huntington Beach Facility and were available for use during the month of July.



Location: Unit 1 and 2 Control Room

## **Worker Safety - 5**



Location: Unit 3 and 4 Control Room



Location: Maintenance Building

# APPENDIX K CHANGES TO CONDITIONS OF CERTIFICATIONS



AES Southland Development 690 N. Studebaker Road Long Beach, CA 90803

*tel* 562 493 7891 fax 562 493 7320

April 27, 2016

Mr. Eric Veerkamp Compliance Project Manager California Energy Commission 1516 Ninth Street MS 2000 Sacramento, 95814

Subject: Huntington Beach Energy Project (12-AFC-02C)

Conditions of Certification VIS-3 Long-Term Construction Screening, Landscape Protection, and Site Restoration Plan – Project Demolition, Construction, and

Commissioning

Dear Mr. Veerkamp;

Based on the memo dated 4/22/16, AES Southland Development, LLC (AES) is re-submitting the attached Long-Term Construction Screening, Landscape Protection, and Site Restoration Plan – Project Demolition, Construction, and Commissioning – Phase 1 LNTP for your review and approval in accordance with VIS-3. If you have any questions, please do not hesitate to contact myself or our HBEP Construction CPM.

Sincerely,

Stephen O'Kane Vice-President

AES Southland Development, LLC

Manager

AES Huntington Beach Energy, LLC

Attachments

cc: Tracy Powell/HBEP Construction CPM

Jerry Salamy/CH2M

From: Veerkamp, Eric@Energy < Eric.Veerkamp@energy.ca.gov>

**Sent:** Tuesday, May 03, 2016 10:15 AM

To: Sene Viola

Cc: Stephen O'Kane; Tracy Powell; Jerry Salamy; Maggie Fitzgerald; Cindy Salazar; Jenifer

Lee; Hinde, Jeanine@Energy; Hamblin, Mark@Energy

Subject: RE: 12-AFC-02C 12-AFC-02C HBEP VIS-3 Long Term Construction Screening....CPM

**APPROVAL** 

#### Good Morning Sene,

Energy Commission technical staff has reviewed the revised VIS-3 submittal, dated April 27, 2016, and finds it acceptable. Therefore, the submittal has CPM approval, and may be implemented in order to proceed with the abatement and demolition activities. We look forward to receiving the VIS-3 submittal and its implementation, in the fourth quarter of 2016, prior to the commencement of the berm removal.

Let me know if you have any questions.

Eric W. Veerkamp Compliance Project Manager California Energy Commission 1516 9<sup>th</sup> Street, MS 2000 Sacramento, CA. 95814 916-654-4295 eric.veerkamp@energy.ca.gov

From: Sene Viola [mailto:sene.viola@guest.aes.com]

Sent: Wednesday, April 27, 2016 3:39 PM

To: Veerkamp, Eric@Energy

Cc: Stephen O'Kane; Tracy Powell; Jerry Salamy; Maggie Fitzgerald; Cindy Salazar; Jenifer Lee

Subject: 12-AFC-02C 12-AFC-02C HBEP VIS-3 Long Term Construction Screening....

Eric,

Attached is our re-submittal for the above referenced COC based on your comments provided in the email from 4/22/16. Please give me a call if you have any questions.

Best regards,

Señe Viola

Documents Control Manager/Compliance Analyst

HBEP AES

C: 857.222.4260

From: Sene Viola

**Sent:** Thursday, May 05, 2016 11:20 PM

**To:** Eric Veerkamp

**Cc:** Lesh, Geoff@Energy; Fooks, Brett@Energy; Stephen O'Kane; Tracy Powell; Jerry Salamy;

Maggie Fitzgerald; Cindy Salazar; Jenifer Lee

**Subject:** 12-AFC-02C HBEP Worker Safety-1 Project Construction Safety and Health Program **Attachments:** AES\_HBEP\_Worker Safety-1.pdf; Argus AESHB Site Safety Plan.pdf; N&M Abatement

Specification HB FINAL.pdf; 2016 AES Huntington Beach Owner's Scope Emergency Response Plan\_rev 2.doc; 2016 AES Huntington Beach Fire Prevention and Protection

Plan.docx; AES Southland Owners Scope Occupational Exposure Program.pdf

Eric,

Attached you will find our re-submittal package for the above referenced COC. Below is a list of each attachment.

Attachment 1 – Argus Site Specific Health and Safety Program

Attachment 2 – Ninyo & Moore (3rd party oversight) Site-Specific Abatement Specification

Attachment 3 – AES's Emergency Action Plan (previously submitted, no changes have been made)

Attachment 4 – AES's Fire and Prevention Plan (previously submitted, no changes have been made)

Attachment 5 – AES Construction Exposure Monitoring Program

Please give me a call if you have any questions.

Best regards,

Señe Viola Documents Control Manager/Compliance Analyst HBEP AES C: 857.222.4260

From: Veerkamp, Eric@Energy < Eric.Veerkamp@energy.ca.gov>

**Sent:** Monday, May 09, 2016 3:22 PM

To: Sene Viola

**Cc:** Lesh, Geoff@Energy; Fooks, Brett@Energy; Stephen O'Kane; Tracy Powell; Jerry Salamy;

Maggie Fitzgerald; Cindy Salazar; Jenifer Lee; Kevin Wedman

**Subject:** 12-AFC-02C HBEP Worker Safety-1 Project Construction Safety and Health Program,

CPM APPROVAL; Abatement approval to proceed

#### Sene,

I have been notified by Brett Fooks, our worker safety specialist that the revised Worker Safety-1 submittal for the Huntington Beach abatement work, dated May 5, 2016, has been reviewed and approved; therefore the WS-1 submittal has CPM approval, and the abatement contractor(s) may begin work immediately.

With approval of the Worker Safety-1 submittal, all the Energy Commission Conditions of Certification have been satisfied for the asbestos and lead abatement activities to commence. As per the conversation I had with Tracy this morning, I understand that you will be administering the WEAP training as a package (BIO/CUL/PAL), beginning on Wednesday, 5/11/2016. Considering that the CUL-1 WEAP is still not approved, I caution against issuing any helmet stickers or other notification of WEAP training completion until such time as all three components of the WEAP training are approved. As the abatement activities do not involve ground disturbing activity, neither the CUL or PAL portions of the WEAP training are required at this time.

Please keep in mind that prior to issuance of the LNTP for the demolition activities, the CUL WEAP will need to be approved AND another Worker Safety-1 submittal for construction (demolition) will need to be submitted and approved.

Thanks. Let me know if you have any questions.

Eric W. Veerkamp Compliance Project Manager California Energy Commission 1516 9<sup>th</sup> Street, MS 2000 Sacramento, CA. 95814 916-654-4295 eric.veerkamp@energy.ca.gov

From: Sene Viola [mailto:sene.viola@quest.aes.com]

**Sent:** Thursday, May 05, 2016 11:20 PM

To: Veerkamp, Eric@Energy

Cc: Lesh, Geoff@Energy; Fooks, Brett@Energy; Stephen O'Kane; Tracy Powell; Jerry Salamy; Maggie Fitzgerald; Cindy

Salazar; Jenifer Lee

Subject: 12-AFC-02C HBEP Worker Safety-1 Project Construction Safety and Health Program

Eric,

Attached you will find our re-submittal package for the above referenced COC. Below is a list of each attachment.

Attachment 1 – Argus Site Specific Health and Safety Program

Attachment 2 – Ninyo & Moore (3rd party oversight) Site-Specific Abatement Specification

From: Sene Viola

**Sent:** Monday, April 18, 2016 9:31 AM

**To:** Eric Veerkamp

**Cc:** Stephen O'Kane; Tracy Powell; Jerry Salamy; Maggie Fitzgerald; Jenifer Lee; Cindy

Salazar

**Subject:** BIO-8 Notification

**Attachments:** MFowlerResume\_Apr2016 for BIO-8 Agency Notification.pdf; MAY2015-RESUME GARY

M SANTOLO.pdf

Eric,

In accordance with Condition of Certification BIO-8, this email serves as notification that the project Designated Biologist, Melissa Fowler, will be conducting the light-footed clapper rail habitat assessment tomorrow, April 19, 2016. Melissa will be accompanied by another senior biologist, Gary Santolo. Both Melissa's and Gary's resumes are attached for your information.

Separate notifications were made to the USFWS and CDFW on April 8, 2016.

#### Sincerely,

Señe Viola Documents Control Manager/Compliance Analyst HBEP AES C: 857.222.4260

From: Veerkamp, Eric@Energy < Eric.Veerkamp@energy.ca.gov>

**Sent:** Thursday, June 09, 2016 10:27 AM

**To:** Sene Viola

Cc: Tracy Powell; Joshua Wynia; Ruben Soroeta; Maggie Fitzgerald

(Maggie.Fitzgerald@ch2m.com)

**Subject:** RE: Bio-8 Habitat Assessment, CPM APPROVAL

#### Sene,

Thank you for providing the notification of the commencement of the habitat surveys in compliance with BIO-8; as such, the submittal has CPM approval, and you may commence with the surveys.

Eric W. Veerkamp Compliance Project Manager California Energy Commission 1516 9<sup>th</sup> Street, MS 2000 Sacramento, CA. 95814 916-654-4295 eric.veerkamp@energy.ca.gov

From: Sene Viola [mailto:sene.viola@quest.aes.com]

Sent: Wednesday, May 25, 2016 11:06 AM

To: Veerkamp, Eric@Energy

Cc: Tracy Powell; Joshua Wynia; Ruben Soroeta; Maggie Fitzgerald (Maggie.Fitzgerald@ch2m.com)

Subject: RE: Bio-8 Habitat Assessment, additional information requested

Good Morning Eric,

Melissa Fowler will conduct the nesting bird surveys on June 6<sup>th</sup> (first survey) at 9am, and June 17<sup>th</sup> (second survey) at 9am.

Melissa Fowler and Gary Santolo will conduct the habitat assessment on June 10<sup>th</sup> at 9am.

Please let me know if you have any questions.

Thank you,

Señe Viola

**Documents Control Manager/Compliance Analyst** 

**HBEP AES** 

C: 857.222.4260

From: Veerkamp, Eric@Energy [mailto:Eric.Veerkamp@energy.ca.gov]

Sent: Monday, May 23, 2016 9:52 AM

To: Sene Viola

Cc: Tracy Powell; Joshua Wynia; Ruben Soroeta

Subject: RE: Bio-8 Habitat Assessment, additional information requested

Sene,

I neglected to follow up on this submittal previously. Will you please forward to me the name of the biologist conducting the surveys and assessment, and the timing of the surveys.

Thank you.

Eric W. Veerkamp Compliance Project Manager California Energy Commission 1516 9<sup>th</sup> Street, MS 2000 Sacramento, CA. 95814 916-654-4295 eric.veerkamp@energy.ca.gov

From: Sene Viola [mailto:sene.viola@quest.aes.com]

**Sent:** Tuesday, May 17, 2016 10:20 AM **To:** Veerkamp, Eric@Energy; Kevin Wedman **Cc:** Tracy Powell; Ruben Soroeta; Joshua Wynia

Subject: Bio-8 Habitat Assessment

Good Morning Eric and Kevin,

Per Bio-8, we are planning to conduct the light-footed clapper rail habitat assessment during the week of June 6<sup>th</sup>.

Please give me a call if you have any questions.

Thank you,

Señe Viola Documents Control Manager/Compliance Analyst HBEP AES C: 857.222.4260 Attachment 3 – AES's Emergency Action Plan (previously submitted, no changes have been made) Attachment 4 – AES's Fire and Prevention Plan (previously submitted, no changes have been made) Attachment 5 – AES Construction Exposure Monitoring Program

Please give me a call if you have any questions.

Best regards,

Señe Viola Documents Control Manager/Compliance Analyst HBEP AES C: 857.222.4260

## APPENDIX L FILINGS/PERMITS

#### Rev. 1



### South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4182

Phone: (909)396-2336 (www.aqmd.gov)

#### Rule 1403 Form Notification of **Demolition or Asbestos Removal**

USPS-Mail Form and Fee To:

SCAQMD PO Box 55641 Los Angeles, CA 90074-5641 All Others-Mail Form and Fee To:

Bank of America Lockbox Services Lockbox # 55641 2706 Media Center Drive Los Angeles, CA 90065

	ax these type of DEMOLITION	of Notification F DEMOLITION	Forms to (909)396 ASBESTOS REMO				1PROCEDURE 5 PLAN	Project	EMERGENCY	ORDERED
Project Type		(Fire Training)	(Renovation) ✓	(Annual)				Urgency		
Notification Type	ORIGINAL 10	CANCELLATION 1	REVISION AMOUNT	REVISION DAT	ES <sup>1</sup> REVISION OT	ILIX	ese provide original date 27/2016			
Contractor In	formation: N	lotifications sl	nould be submitt	ed by the cont	actor performin	g the pr	oject			
CSLB License g	34189 Cal. C	OSHA REG 009	961 AQMID ID	133181 CHEC	K FEE	\$ 59.37	7 DATE 07/	27/2016	PROJECT#	4632253x
Company Name	Argus Contract	ing, LP					st Site Supervisor(s)		Pho	
Address	11807 Smith A	\venue			TBD					
City	Santa Fe Spi	rings	Slate (	CA Zip 906	70					
Completed by	Kara Rodrigu	lez	Phone	(310) 254-543	9					
Site Inform	nation: Copi	es of this noti	fication and the	CAC asbestos	survey report n	nust be I	kept at the worksite	during th	is project	
	AES Hunting				, ·			J		
	21730 Newla			Cros	Street Pacific C	Coast Hid	hway	1.		
	Huntington B		Stante (		6 County Ora					
	AES Hunting				Contact Josh Wy			Phon	e (714) 374	-1401
	690 North Sti				ong Beach		State C		90803	
	Describe Work F	Remove pipe	wrap from above		*					
	_		rner of the Peak	•						
	ect Start Date			roject End Date	08/05/2016	Project V	Vork Shift Day 🗿	Swing C	Night O	
<sup>2</sup> BUILDING SIZE	_		-	r of Floors	Building Age	(Years)	Number of B	uildings o	r Dwelling Unit	ts
Building Prior/ Present Use	SCHOOL HOS	SPITAL CONDO	/APT PUBLIC BLDC	G. INDUSTRIAL	COMMERCIAL O	FFICE U	UNI/COLLEGE HOUSE	SHIF	OTHER Pipes	
Required Buildin	ng Intormation	ASBESTOS SI		ESTOS FOUND?	ASBESTOS R	EMOVED O 🗿	_	DEMOLIS		
Asbestos I	nformation	1: Do not pro	vide this informa	ition in demolit	on notifications	, see pg	2			
Asbestos Amo	unt to be Rem	oved =	RIABLE	CLAS	SI _	C	LASSII		OTAL	
in sq ft	100110710				355			_		55.00
Amount of Each Type of Asbesto		EILING LIN	NOLEUM INS	ULATION FIR	PROOFING	DUCTING	STUCCO	MASTI	C FLOOR	TILES (VAT)
in sq ft	DRYWA	ALL PL	ASTER TF	ANSITE	ROOFING	OTHER 355.00	PLEASE DESCRIE Tar and Felt	E OTHER	TYPE OF ASBE	STOS:
As bestos Remov	val From	SURFACES	☐ PIPE	s 🔽 co	MPONENTS					
	ction Procedu BULK SAMPLIN		•	•	ls used to detern ASBESTOS-PAÇM		oresence of asbestos i			ey Checklist
		ion of Rule 140			_	Procedu	re 4 and 5 submit plar	s for AQN	ID prior appro	val)
PROCEDURE N		1 🗸	2 🔲 3	'	b c letter from the	]	offeeted by the eme	manau av	otoining how th	aic event
caused unsafe of	conditions, equi	ran: Oneck (ne : ipment damage	sudden unexpecte e or unreasonable	financial burder	ch a letter from ti For disturbed/d	amaged	n affected by the emer asbestos materials se	gency ex e <i>Procedu</i>	r <u>e 5 Guidelines .</u>	iis evenii
							EN EQUIPMENT DAMA			
Name of Person Authorizing the E	-			Р	none		Date of Emergency		Hour of Emergency	
AQMD USE C	NLY: SCREE	NED BY	RECEIVED	PO	STMARKED	E	NTERED BY	NOTIF	CATION#	

<sup>&</sup>lt;sup>2</sup> Fees are per Notification and vary according to the <sup>2</sup>TOTAL AMOUNT of asbestos removed or the demolition <sup>2</sup>BUILDING SIZE

## South Coast Air Quality Management District 21865 Copley Drive, Diamond Bar, CA 91765-4182

Phone: (909)396-2336 (www.aqmd.gov)

## AC MID Demolition or Asbestos Removal

#### USPS-Mail Form and Fee To:

SCAQMD PO Box 55641 Los Angeles, CA 90074-5641

#### All Others-Mail Form and Fee To:

Bank of America Lockbox Services Lockbox # 55641 2706 Media Center Drive Los Angeles, CA 90065

Demolition Information: All asbestos cont	aining materials must be	removed <i>prior</i> to any	demolition activity	4	
Asbestos Removal Company Name			Date o	f Asbestos Remova	al
Check work practices to prevent, suppress and contain	dust, and dust controls to	be use at the demolition s	ite		
SPRAY WATER EXIT GRATES TARP TRUCKS/BINS F	ENCE SCREENS STONE	TRUCK PADS TIRE WASH	ING SOIL STABILIZ	ZERS OTHER	
Contingency Demolition Plan: Check actions to be followed, pulverized or reduced to powder. Disturbed/Dama					
STOP WORK NOTIFY OWNER SECURE STABILIZE	POST SIGNS ISOLATE W	ORK AREA SURVEY CH.	ARACTERIZE WAST	E OTHER	
Ordered Demolition: Attach a copy of the ager	ncy order			•	
Agency Name		Phone _		Date of Orde	er
Authorizing Person	Title		Da	rte Ordered to Begi	n
Waste Information					
WASTE TRANSPORTER #1 Argus Contracting, LP		WASTE STORAGE SITE	Argus Contracting	ą, LP	
Address _11807 Smith Avenue		Address 11807 Sr	mith Avenue		
City Santa Fe Springs State Co	A Zip 90670	City Santa Fe	Springs	State CA	Zip 90670
WASTE TRANSPORTER#2 Star Resources Corp.	<del></del>	LANDFILL Azusa La			•
Address 1026 Blinn Avenue		Address 1211 W	Gladstone		
City Wilmington State Co	A Zip 90744	City Azusa		Slate CA	Zip 91702
Contractor Certification: All contractors o					
I certify that an individual trained in the provisions of regulations renovation and evidence that the required training has been as information contained herein and information submitted with the	complished by this person will	be available for inspection du d.	iring normal business	hours. I hereby cer	tify that all of the
Company Name Argus Contracting, LP			tle of Owner/Operator		jer
Print Name of Owner/Operator Kara Rodriguez	Signatu	re of Owner/Operator		Date	07/27/2016
Notification Fee: No notifications shall be considered check payable to "SCAQMD". Fees are per notification and varies is the difference between the new Project Size Fee category.	ry according to the 2TOTALA	MOUNT of asbestos removed	d or the demolition 2 <b>8</b> 0		
Project Size Fee: \$ 0.00	Fee Based on F	Project Size (sq ft)		Additional Fee	e5
Additional Fee: \$ 59.37	1,000 or less	\$ 59.37 Г	Special Handlin	g Fee	\$ 59.37
Total Fee Due: \$ 59.37	1,001 to 5,000		<del>_</del>	ification	• =
	5,001 to 10,000		<b></b> I	k Fee	· · · · · · · ·
	10,001 to 50,00050,001 to 100,000	_	<b>—</b> II	ation5 Plan	+ 000100 <u></u>
	100,001 or more	T	<b>⊸</b> \	5 Plan	, <u></u>
Attention  Keep Three (3) Copies of This Notification Form for your rethat requires that you provide a copy of the demolition notification. Rule 1403 can be obtained from the AQMD website at http: PO Box 55641, Los Angeles, CA 90074-5641; For ALL CA 90065. Mailing saves time, money and reduces traff	cords, to post at the worksite on to Building and Safety befor //www.agmd.gov. Please mail . OTHER: Bank of America	e, and to obtain a city demolific e issuance of a demolition pe this signed original notificatio	on permit. See <u>Californ</u> rmit. For questions cal n form, fee, and any a	nia Health and Safe Il 909-396-2336. Fo ttachments to: For	Ny Code 19827.5 irms, instructions and USPS: SCAQMD,



### South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4182

Phone: (909)396-2336 (www.agmd.gov)

## Rule 1403 Form Notification of

USPS-Mail Form and Fee To:

SCAQMD PO Box 55641 Los Angeles, CA 90074-5641 All Others-Mail Form and Fee To:

Bank of America Lockbox Services Lockbox # 55641 2706 Media Center Drive

Los Angeles, CA 90065 **Demolition or Asbestos Removal** 1 Fax these type of Notification Forms to (909)396-3342 and mail the originals within 48 hrs DEMOLITION DEMOLITION ASBESTOS REMOVAL PLANNED RENO 1 PROCEDURE 4 PLAN 1 PROCEDURE 5 PLAN EMERGENCY ORDERED Project Project Type (Fire Training) Urgency ORIGINAL \*CANCELLATION \*REVISION AMOUNT \* REVISION DATES \* REVISION OTHER Notification Type Contractor Information: Notifications should be submitted by the contractor performing the project PROJECT# 4632253x 934189 Call OSHA REG 00961 AQMDID 133181 FEE \$ 59.37 DATE 07/12/2016 List Site Supervisor(s) **Phone** Company Name Argus Contracting, LP Address 11807 Smith Avenue TBD CA Ziρ City Santa Fe Springs State 90670 Completed by Kara Rodriguez (310) 254-5439 Phone Site Information: Copies of this notification and the CAC asbestos survey report must be kept at the worksite during this project Site Name AES Huntington Beach Site Address 21730 Newland Street Cross Street Pacific Coast Highway State CA Zip 92646 County Orange Site City Huntington Beach Site Owner AES Huntington Beach Energy LLC Contact Josh Wynia Phone (714) 374-1401 Owner Address 690 North Studebaker Road City Long Beach State CA Zip 90803 Describe Work Remove pipe wrap from above ground pipes Describe Work Location (s) North East Corner of the Peaker Unit Project Work Shift Day O Swing O Night O Removal Project Start Date 07/27/2016 Removal Project End Date 08/05/2016 Number of Floors Building Age (Years) Number of Buildings or Dwelling Units <sup>2</sup>BUILDING SIZE in sq ft SCHOOL HOSPITAL CONDO/APT PUBLIC BLDG, INDUSTRIAL COMMERCIAL OFFICE UNI/COLLEGE HOUSE Building Prior/ Present Use П ASBESTOS SURVEY? ASBESTOS FOUND? ASBESTOS REMOVED? BUILDING TO BE DEMOLISHED? Required Building Information YES O NO O YES ① NO 〇 YES O NO ① YES O NO O Asbestos Information: Do not provide this information in demolition notifications, see pg 2 2 TOTAL Asbestos Amount to be Removed FRIABLE CLASSI 355 355.00 AMOUNT in sq ft Amount of Each ACOUSTIC CEILING DUCTING LINOLEUM INSULATION FIRE PROOFING STUCCO MASTIC FLOOR TILES (VAT) Type of Asbestos DRYWALL TRANSITE ROOFING OTHER PLASTER PLEASE DESCRIBE OTHER TYPE OF ASBESTOS: in sqft 355.00 Tar and Felt SURFACES **PIPES** 1 COMPONENTS П Asbestos Removal From Asbestos Detection Procedures: Check the procedures and analytical methods used to determine the presence of asbestos in the building. See Survey Checklist SURVEY 🔽 BULK SAMPLING 🔽 INSPECTION 🗹 CAC ASSUMED AS ASBESTOS-PACM 🔲 PLM 🔼 PCM 🔲 TEM 🔲 Controls: Check the combination of Rule 1403 procedures used to control asbestos emissions. (Procedure 4 and 5 submit plans for AQMD prior approval) PROCEDURE NUMBER 2 П 3  $\checkmark$ 4 Emergency Asbestos Removal: Check the sudden unexpected event and attach a letter from the person affected by the emergency explaining how this event caused unsafe conditions, equipment damage or unreasonable financial burden. For disturbed/damaged asbestos materials see Procedure 5 Guidelines. FIRE FLOOD WATER DAMAGE EARTHQUAKE NUISANCE VANDALISM HEALTH/SAFETY FINANCIAL BURDEN EQUIPMENT DAMAGE OTHER **Hour** of Name of Person Declaring/ Date of Authorizing the Emergency Phone Emergency Emergency

RECEIVED

POSTMARKED

NOTIFICATION #

**ENTERED BY** 

AQMD USE ONLY: SCREENED BY

<sup>&</sup>lt;sup>2</sup> Fees are per Notification and vary according to the <sup>2</sup>TOTAL AMOUNT of asbestos removed or the demolition <sup>2</sup>BUILDING SIZE



### South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4182 Phone: (909)396-2336 (www.aqmd.gov)

## Rule 1403 Form Notification of Demolition or Asbestos Removal

#### USPS-Mail Form and Fee To:

SCAQMD PO Box 55641 Los Angeles, CA 90074-5641

#### All Others-Mail Form and Fee To:

Bank of America Lockbox Services Lockbox # 55641 2706 Media Center Drive Los Angeles, CA 90065

Demolition Information: All asbestos conta	aining materials must be i	removed <i>prior</i> to any d	lemolition activity								
Asbestos Removal Company Name Date of Asbestos Removal											
Check work practices to prevent, suppress and contain	dust, and dust controls to be	e use at the demolition sit	е								
SPRAY WATER EXIT GRATES TARP TRUCKS/BINS F	ENCE SCREENS STONE THE	RUCK PADS TIRE WASHII	NG SOIL STABILIZEI	RS OTHER							
Contingency Demolition Plan: Check actions to be for bled, pulverized or reduced to pewder. Disturbed/Dama											
STOP WORK NOTIFY OWNER SECURE STABILIZE	POST SIGNS ISOLATE WOF	RKAREA SURVEY CHA	RACTERIZE WASTE	OTHER							
Ordered Demolition: Attach a copy of the agen	icy order	_									
Agency Name		Phone		Date of Order							
Authorizing Person	Title		D <b>a</b> te	Ordered to Begin							
Waste Information				_							
WASTETRANSPORTER #1 Argus Contracting, LP		WASTESTORAGESITE A	rgus Contracting	LP							
Address 11807 Smith Avenue		Address 11807 Sm									
City Santa Fe Springs State CA	A Zip 90670	City Santa Fe	Springs	State CA	Zip 90670						
WASTE TRANSPORTER#2 Star Resources Corp.		LANDFILL Azusa Lar			-						
Address 1026 Blinn Avenue		Address 1211 W G	ladstone								
City Wilmington State C/	A Zip 90744	City Azusa		State CA	Zip 91702						
Contractor Certification: All contractors or											
I certify that an individual trained in the provisions of regulations renovation and evidence that the required training has been ac information contained herein and information submitted with the	complished by this person will b	estos NESHAP Title 40 CFR e available for inspection dur	R <u>Part 61 Subpart M</u> will ing normal business ho	be on site during ours. I hereby certi	the demolition or fy that all of the						
Company Name Argus Contracting, LP		Title	e of Owner/Operator	Project Manage	er						
Print Name of Owner/Operator Kara Rodriguez	Signature	re of Owner/Operator Date 07/12/2016									
Notification Fee: No notifications shall be considere check payable to "SCAQMD". Fees are per notification and variee is the difference between the new Project Size Fee categori	ry according to the 2TOTAL AM	OUNT of asbestos removed	or the demolition 2BUIL								
Project Size Fee: \$ 59.37	Fee Based on Pro	oject Size (sq ft)	Additional Fees								
Additional Fee: \$ 0.00	1,000 or less	\$ 59.37 V	Special Handling	Fee	\$ 59.37						
Total Fee Due: \$ 59.37	1,001 to 5,000		Revision to Notific								
	5,001 to 10,000	· · · ·	Returned Check F		¥ 20.00 <u> </u>						
	10,001 to 50,000 50,001 to 100,000		Planned Renovati								
	100,001 or more	_	Expedited 4 or 5 f								
Attention  Keep Three (3) Copies of This Notification Form for your rethat requires that you provide a copy of the demolition notification. Rule 1403 can be obtained from the AOMD website at http://POBox.55641, Los Angeles, CA 90074-5641; For ALL CA 90065. Mailing saves time, money and reduces trafficence.	on to Building and Safety before <u>//www.agmd.gov</u> . Please mail th . OTHER: Bank of America L	and to obtain a city demolition issuance of a demolition pen is signed original notification	mit. For questions call 9 form, fee, and any atta	09-396-2336, For ichments to: For U	ms, instructions and JSPS: SCAQMD,						

# APPENDIX M COMPLAINTS, NOTICES OF VIOLATIONS, WARNINGS AND CITATIONS

#### AES Huntington Beach Energy Project Owner's Scope Hotline Call Log July 2016

	Date	Time	First Name	Last Name	Phone Number	Address	City/State/ZIP	Email	Inquiry	Complaint?	Noise?	Status	Response Date	Response Time	Response	Responder*
1	7/5/2016	3:32 PM	Mike	Trelles	(714) 398-4542	Not provided	Not provided	Not provided	Will Newland St or Edison Ave/Hamilton Ave. be blocked at any time during project construction? Will hazardous materials/particulate be exposed to the air during demolition? Will power plant owners pay for relocation costs to mitigate noise to neighbors over next 10 years?	No	Could become noise complaint after demo begins	Closed	N/A		CEC to respond, called the CEC direcly. Call is being documented for tracking.	CEC
2	7/12/2016	11:16 AM	Betty	Gomez	(714) 968-4376	Not provided	Not provided	Not provided	Lives behind Edison High School. Wondering if construction is at the corner of Hamilton & Magnolia and what will be done at site.	No	No	Closed	7/13/2016	11:07 AM	Notified caller that AES is not involved in the construction at the corner of Magnolia and Hamilton. The AES HBEP project is located on Newland, east of PCH.	JΤ
3	7/14/2016	2:39 PM	No Name	No Name	(323) 560-1343	Not provided	Not provided	Not provided	No voice message left.	No	No	Closed	N/A	N/A	None	N/A

<sup>\*</sup>Responders listed by initials: CEC: California Energy Commission JT: Jennifer Trotter N/A: Not Applicable