

N00221_000705
MARE ISLAND
SSIC NO. 5090.3.A



Department of Toxic Substances Control



Alan C. Lloyd
Agency Secretary
Cal/EPA

700 Heinz Avenue, Suite 200
Berkeley, California 94710-2721

Arnold Schwarzenegger
Governor

January 31, 2005

Mr. Jerry Dunaway
U.S. Department of Navy
BRAC Program Management Office West
1230 Columbia Street, Suite 1100
San Diego, California 92101-8571

Dear Mr. Dunaway:

Mare Island Draft Removal Action Work Plan, Non-Time-Critical Removal Action for the Fenced Scrapyard Area of the Defense Reutilization and Marketing Office Site, dated 12/10/04

The Department of Toxic Substances Control has reviewed the subject document. The attached additional comments are forwarded to you for your consideration. Also attached is additional ARARs information for this removal action.

Should you have any questions regarding this letter, please call me at (510) 540-3773.

Sincerely,

Chip Gribble
Remedial Project Manager
Base Closure Unit
Office of Military Facilities

Attachments

cc: Mr. Gary Riley
Ms. Carolyn d'Almeida

Post-It™ brand fax transmittal memo 7671		# of pages ▶ 12
To	Jerry Dunaway	From
Co.	Navy Northwest	Co.
Dept.		Phone #
Fax #	619-532-0940	Fax #
		510-540-3773

♻️ Printed on Recycled Paper

**DTSC Comments on the Mare Island
Draft Removal Action Work Plan, Non-Time-Critical Removal Action for the
Fenced Scrapyard Area of the Defense Reutilization and Marketing Office Site,
dated 12/10/04**

1. Title page: Please change the title of this document by adding "Removal Action Workplan" to the title.
2. Page 1-1, para. 1, first sentence: After the word "CERCLA" in the first sentence, please add "and requirements of the California Health and Safety Code Chapter 6.8 as defined by DTSC".
3. Page 1-4, Para. 2: Please clearly delineate the FSA in Figure 1-2.
4. Page 1-5, section 1.2.2: Please provide more detailed information regarding the storm water system for this general area. Manholes should be identified; discharge points should be described in detail. Corresponding contaminant data should be presented and discussed.
5. Page 1-7, para. 6: Please include here the referenced additional information regarding the history of the DRMO Site and previous investigations that is presented in the EE/CA. Also, site history developed as part of the radiological survey effort should be included.
6. Page 1-7, section 1.4, para. 1: This area has already been the subject of a significant radiological survey. The radiological survey is considered detailed and complete. Additional radiological characterization is not considered necessary at this time. Radiological monitoring may or may not be conducted as part of a health and safety plan. Please revise accordingly.
7. Page 1-7, section 1.4: A removal or interim action must be consistent with the reasonably anticipated final remedy. The proposed removal action appears to be based on an anticipated final remedy (not clearly stated) that does not support unrestricted use. Further, the proposed removal action does not appear to be consistent with a possible final remedy of unrestricted use. An analysis of alternatives should be presented, and the analysis should include alternatives that support unrestricted use. This RAWP should then present a recommendation for a particular alternative with a corresponding rationale.
8. Page 2-4, section 2.3.2: S/A comment number 6.
9. Page 2-7, section 2.3.3, para. 5: Please add a visual survey, in addition to the geophysical survey, of the anticipated bottom of excavated areas to support a determination that debris-laden soil (which is the soil with the potential to contain MEC) has been completely excavated.

10. Page 2-8, section 2.3.4: S/A comment number 6.
11. Page 2-8, section 2.3.4, para. 4: Please provide information regarding screen size for the screening operation.
12. Page 2-15, section 2.6: Please add a statement that all activities of this DRMO removal action will be consistent with the established requirements set forth in the Final EE/CA RAWP for the Operation of the Mare Island Ordnance Storage and Treatment Facilities dated 2/13/04 and approved by the DTSC 3/9/04.
13. Page 2-20, para. 2: Please describe a MEC After Action Report and how it is intended to relate to the Removal Action Summary Report which must follow the completion of the removal action.
14. Please forward a copy of Volume II of the RAWP, as we have not received this yet.
15. Page 3-7, section 3.2.7: S/A comment number 6.
16. Page 3-8, section 3.3.3: Demolition debris should be disposed at a solid waste landfill or other facility based on a determination of the debris or waste, and consistent with all applicable laws and regulations.
17. Page 3-8, section 3.3.5: Bladder plugs are not considered as permanent blockages and should not be used on this basis. The implications of removal of the storm drain line should be evaluated now and included in the revised RAWP. The RAWP should include a specific plan for this aspect of work, and should also discuss the resulting environmental impact.
18. Page 3-9, para. 1: Please describe how the grubbing will be conducted to ensure that MEC and chemical contamination will not be reintroduced to remediated areas with the redistribution of the mulch.
19. Page 3-11, section 3.4.4: A clean bottom should be defined by a 100% geophysical survey and investigation of all anomalies. This clean bottom survey should be conducted when excavation has reached a depth, or below the depth, that is considered to be the top of the original soil or soil that was placed prior to the time period with a history that may have included the handling of ordnance. According to the CSM, the soil at this depth, when exposed by this removal action, should be visually free from debris. Excavation should continue at least to this depth which, according to the CSM, should be relatively shallow and have a visually distinctive soil interface. This RAWP should also include or be followed by a QA/QC Plan for the MEC component of this removal action. This QA/QC Plan should be approved prior to the start of the removal action.

- 20. Page 3-14, section 3.4.7.1, and 3.4.7.2: Resampling that is to be done due to further excavation to meet cleanup goals should not be limited to the failed COPC only; Instead, resampling should be for the complete set of COPCs for the DRMO Scrapyard. If the bottom sample reaches the groundwater table but has not reached TCGs, the regulatory agencies must be consulted on any consideration of deviating from the established removal action cleanup goals.
- 21. Page 3-16, section 3.5.2: Please explain how it is expected that soil screening will work for this site whereas it apparently does not work for the MCFR site. A substitute method should be considered and presented that addresses the possible situation where soil screening is found to be problematic.
- 22. Table 3-2: Ambient values for SVOCs have not been established for Mare Island. For this part of Mare Island, ambient/background values for several inorganic constituents only have been established. These ambient/background values should not be misused in a manner that falsely defines any concentration below the 95th percentile to be ambient/background. When using ambient/background values for inorganic constituents in this table, please also present the mean value. Please also provide a footnote that references the Navy's ambient/background document that has been approved by DTSC.
- 23. Table 3-2: Industrial PRGs as TCGs may not be appropriate for this site (S/A comment number 7).
- 24. Figure 3-4, note number 3: It is not clear what is meant by this note. Please clarify.
- 25. Page 4-3, section 4.3.2: Given that the public use of Mare Island is increasing and changing considerably as the reuse evolves, it is recommended that the Navy conduct a site security review of the ordnance storage facilities and submit to DTSC a written report detailing any recommendations for changes to existing site security practice.
- 26. Page 4-7, section 4.7, para. 1: Please add the regulatory agencies to this notification list.

Determination of a Hazardous Waste

California Code of Regulations, Title 22 (22 CCR), Division 4.5, Chapter 11

Hazardous Waste Determination requirements are applicable for alternatives that will generate waste. The above identified sections include requirements for determining whether excavated material or extracted groundwater or other generated waste are either RCRA or non-RCRA hazardous waste (i.e. California only waste).

Land Disposal Restrictions (LDR)

California Code of Regulations, Title 22, Chapter 18.

Land disposal restrictions prohibit disposal of hazardous waste unless treatment standards are met and are applicable for alternatives that will generate waste subject to land disposal restrictions.

Hazardous Waste Generator Requirements

California Code of Regulations, Title 22, Chapter 12 and Chapters 15 and 18 as referenced in Chapter 12.

On-site hazardous waste accumulation requirements are applicable if hazardous waste is generated and accumulated on site before transport.

Remediation Waste Staging and On-Site Storage

California Health and Safety Code, Chapter 6.5, Article 2, section 25123.3

This section provides definitions and requirements for on-site storage of non-RCRA hazardous waste soil prior to on-site treatment or off-site transportation and is applicable if non-RCRA hazardous waste soil is accumulated and stored on-site.

Species and Habitat Protection

California Fish and Game Code, Section 3005

This section prohibits the taking of birds and mammals, including taking by poison.

California Fish and Game Code, Sections 1601 and 1603

California Fish and Game Code, Sections 1900, 1908, 2053, and 2080

These sections specify that projects within the state shall not jeopardize the existence of any endangered or threatened species or result in the destruction or adverse modification of a habitat essential to the species.

Hazardous Waste and Hazardous Substances Control Laws

- California Hazardous Substance Account Act/Hazardous Substances Cleanup Bond Act, Health and Safety Code, Division 20, Chapter 6.8, Section 25300 et seq.: Establishes a program to provide for response authority for releases of hazardous substances, compensation for injuries resulting from exposure to release of hazardous substances, and adequate matching funds for CERCLA actions.
- California Hazardous Waste Control Law, Health and Safety Code, Division 20, Chapter 6.5, Section 25100 et seq.: Regulations governing hazardous waste control, management and control of hazardous waste facilities, transportation, laboratories, classification of extremely hazardous, hazardous and non-hazardous wastes.
- California Hazardous Substances Act, Health and Safety Code, Division 22, Chapter 13. Provides definitions of "hazardous substance" and "toxic".
- Hazardous Materials Release Plans and Inventory Requirements, Health and Safety Code, Division 20, Chapter 6.95, Section 25500 et seq.: reporting requirements for release or threatened release of a hazardous material.
- Requirements for generators of hazardous wastes, 22CCR, 66470-99515: requires compliance with generator standards including keeping manifests, submission of manifests within 30 days, and maximum 90 day accumulation time.
- Criteria for identification of hazardous and extremely hazardous wastes threshold limit concentrations, 22 CCR, Division 4, Chapter 30, Article 11, Section 66693-66747: soluble threshold limit concentrations (STLCs) and total threshold limit concentrations (TTLCs).
- 22 CCR, Division 4, Chapter 30, Section 66001 et seq.: Minimum standards for management of hazardous and extremely hazardous wastes.
- Hazardous Waste Haulers Act, 22 CCR, Chapter 30: governs transportation of hazardous materials in California.
- CAC, Title 19, Chapter 2, Subchapter 3: hazardous materials release response.
- CAC, Title 26: directory of toxic related regulations.

Wells

- California Well Standards, Bulletins 74-81 and 74-90 contain recommended minimum standards for the protection of groundwater quality. Includes requirements for construction, maintenance, and destruction of monitoring wells and cathodic protection wells. Includes requirements for exploratory borings.
- California Water Code, Division 7: requirements for installation of monitoring wells, including drillers' requirements.
- Health and Safety Code, Division 104, Part 9.5: requirements for inactive wells.

Cultural and Historical Sites

- Native American Heritage Commission, Health and Safety code Section 7050.5 and Public Resources Code, Sections 5097.94, 5097.98, and 5097.99:

establishes procedures to be followed in the event of discovery or recognition of any human remains in any location other than a cemetery.

Air Emissions

- BAAQMD Rule 6: regulates particulate matter and visible emissions.
- BAAQMD Regulation 8 Rule 40: control of organic compounds: aeration of contaminated soil and removal of underground storage tanks.
- BAAQMD, Regulation 8, Rule 47: limits emissions of VOCs from treatment of soil and groundwater.

Wetlands

- Fish and Game Code, Division 6, Part 1, Chapter 2, Section 5650 et seq.: codifies the prohibition of water pollution with any substance or material deterioration of fish, plant life, or bird life.
- California Coastal Act of 1976, Public Resources Code, Division 20, Section 30000 et seq.: governs activities in the coastal zone.
- McAteer-Petris Act of 1969 (BCDC), Title 14 Administrative Code, Section 66600 et seq.: provides permit authority over any construction within 100 feet of tidal waters of San Francisco Bay and in tidal waters.

Transportation

- California Highway Patrol (CHP): California Vehicle Code, Section 32000 et seq.: transportation of hazardous materials from the site.

Worker Safety

- California Occupational Health and Safety Code (OSHA), Labor Code, Division 5, Section 6300 et seq.: regulations to ensure safe working conditions by authorizing the enforcement of standards and procedures.
- California Administrative Code (CAC), Title 8, Chapter 4, Section 1500 et seq.: construction safety regulations: Check if CAC is now CCR???
- 8 CAC, Subchapter 5, Section 2300 et seq.: electrical safety regulations.
- 8 CAC, Subchapter 7, Section 3200 et seq.: general industrial safety regulations, including procedures, equipments, and structures.
- 14 CAC, Division 7, Chapter 3: standards for solid waste handling and disposal.

State ARARs for Solid Waste Disposal Site Closure and Postclosure Maintenance

Source	Standard, Requirement, Criterion, or Limitation	Description	Comment
California Integrated Waste Management Act of 1989 PRC 40502 & 43020	27 CCR 21130 Ch. 3, Subch. 5, Art. 2, Closure & Postclosure Maint. Standards for Disposal Sites and Landfills	Emergency Response: potential emergency conditions that may exceed the design of the site and could endanger the public health or environment must be anticipated. Response procedures for these conditions must be addressed in the RD/RA plans.	Closure or Postclosure Maintenance Standards for Disposal Sites and Landfills of 27 CCR, Ch. 3, Subch. 5, Art. 2. Scope & Applicability pursuant 27 CCR 21100.
California Integrated Waste Management Act of 1989 PRC 40502 & 43020	27 CCR 21135 Ch. 3, Subch. 5, Art. 2, Closure & Postclosure Maint. Standards for Disposal Sites and Landfills	Site Security: all points of access to the site must be restricted, except permitted entry points. All monitoring, control, and recovery systems shall be protected from unauthorized access.	Closure or Postclosure Maintenance Standards for Disposal Sites and Landfills of 27 CCR, Ch. 3, Subch. 5, Art. 2. Scope & Applicability pursuant 27 CCR 21100
California Integrated Waste Management Act of 1989 PRC 40502 & 43020	27 CCR 21137 Ch. 3, Subch. 5, Art. 2, Closure & Postclosure Maint. Standards for Disposal Sites and Landfills	Structure Removal: site structures and leachate and gas control systems not intended for reuse will be dismantled and removed at the time of closure to protect public health and safety.	Closure or Postclosure Maintenance Standards for Disposal Sites and Landfills of 27 CCR, Ch. 3, Subch. 5, Art. 2. Scope & Applicability pursuant 27 CCR 21100
California Integrated Waste Management Act of 1989 PRC 40502 & 43020	27 CCR 21140 Ch. 3, Subch. 5, Art. 2, Closure & Postclosure Maint. Standards for Disposal Sites and Landfills	Final Cover: the final cover shall function with minimum maintenance and provide waste containment to protect public health and safety by controlling at a minimum, vectors, fire, odor, litter and landfill gas migration. The final cover shall also be compatible with postclosure land use.	Closure or Postclosure Maintenance Standards for Disposal Sites and Landfills of 27 CCR, Ch. 3, Subch. 5, Art. 2. Scope & Applicability pursuant 27 CCR 21100
California Integrated Waste Management Act of 1989 PRC 40502 & 43020	27 CCR 21142 Ch. 3, Sub. 5, Article 2, Closure & Postclosure Maint. Standards for Disposal Sites and Landfills	Final Grading: final grades must be designed and maintained to reduce impacts to health and safety and take into consideration any postclosure land use.	Closure or Postclosure Maintenance Standards for Disposal Sites and Landfills of 27 CCR, Ch. 3, Subch. 5, Art. 2. Scope & Applicability pursuant 27 CCR 21100
California Integrated Waste Management Act of 1989 PRC 40502 & 43020	27 CCR 21145 Ch. 3, Subch. 5, Art. 2, Closure & Postclosure Maint. Standards for Disposal Sites and Landfills	Slope Stability: the operator shall ensure the integrity of final slopes under both static and dynamic conditions to protect public health & safety and prevent damage to postclosure land uses, roads, structures, utilities, gas monitoring and control systems, leachate collection and control systems to prevent public contact with leachate, and prevent exposure of waste.	Closure or Postclosure Maintenance Standards for Disposal Sites and Landfills of 27 CCR, Ch. 3, Subch. 5, Art. 2. Scope & Applicability pursuant 27 CCR 21100.
California Integrated Waste Management Act of 1989 PRC 40502 & 43020	27 CCR 21150 Ch. 3, Subch. 5, Art. 2, Closure & Postclosure Maint. Standards for Disposal Sites and Landfills	Drainage and Erosion Control: the drainage and erosion control system shall be designed and maintained to ensure integrity of postclosure land uses, roads, and structures; to prevent public contact with waste and leachate; to ensure integrity of gas monitoring and control systems; to prevent safety hazards; and to prevent exposure of waste.	Closure or Postclosure Maintenance Standards for Disposal Sites and Landfills of 27 CCR, Ch. 3, Sub. 5, Art. 2. Scope & Applicability pursuant to 27 CCR 21100
California Integrated Waste Management Act of 1989 PRC 40502 & 43020	27 CCR 21160 Ch. 3, Sub. 5, Article 2, Closure & Postclosure Maint. Standards for Disposal Sites and Landfills	Landfill Gas Control and Leachate Contact: landfill gas control shall be implemented and maintained; leachate must be collected and controlled in a manner which prevents public contact and controls vectors, nuisance and odor.	Closure or Postclosure Maintenance Standards for Disposal Sites and Landfills of 27 CCR, Ch. 3, Subch. 5, Art. 2. Scope & Applicability pursuant 27 CCR 21100. The state does not intend that subsurface leachate monitoring and collecting systems need to be added to existing landfills unless leachate production and/or accumulation is evident.
California Integrated Waste Management Act of 1989 PRC 40502 & 43020	27 CCR 20921-20937 Ch. 3, Sub. 4, Article 6, Closure & Postclosure Maint. Standards for Disposal Sites and Landfills	Gas Monitoring and Control During Closure and Postclosure: to protect public health and safety and the environment, landfill gases generated at a disposal site will be controlled to ensure that: 1) concentrations of methane gas do not exceed 1.25% by volume in air within on-site structures, 2) concentrations of methane do not exceed 5% by volume in air at the property or designated landfill boundary and 3) trace gases do not pose an acute or chronic exposure to toxic or carcinogenic compounds	Closure or Postclosure Maintenance Standards for Disposal Sites and Landfills of 27 CCR, Ch. 3, Subch. 5, Art. 2. Scope & Applicability pursuant 27 CCR 21100

State ARARs for Solid Waste Disposal Site Closure and Postclosure Maintenance

FEB 01 2005 15:56

Source	Standard, Requirement, Criterion, or Limitation	Description	Comment
California Integrated Waste Management Act of 1989 PRC 40502 & 43020	27 CCR 21180 Ch. 3, Sub. 5, Article 2, Closure & Postclosure Maint. Standards for Disposal Sites and Landfills	Postclosure Maintenance: the landfill must be maintained and monitored for no less than 30 years following closure.	Closure or Postclosure Maintenance Standards for Disposal Sites and Landfills of 27 CCR, Ch. 3, Subch. 5, Art. 2, Scope & Applicability pursuant 27 CCR 21100.
California Integrated Waste Management Act of 1989 PRC 40502 & 43020	27 CCR 21190 Ch. 3, Sub. 5, Article 2, Closure & Postclosure Maint. Standards for Disposal Sites and Landfills	Postclosure Land Use: Site Closure Design shall show one or more proposed uses of the closed site or show development that is compatible with open space. Changes in postclosure land use must be approved by the appropriate State agency prior to implementation.	Closure or Postclosure Maintenance Standards for Disposal Sites and Landfills of 27 CCR, Ch. 3, Subch. 5, Art. 2, Scope & Applicability pursuant 27 CCR 21100
California Integrated Waste Management Act of 1989 PRC 40502 & 43509	27 CCR 21800 Ch. 4, Subch. 4, Final Closure Plan Contents	Provides the content requirements for closure plans for solid waste disposal sites.	Applies to solid waste disposal sites that received waste after November 1990. Relevant and appropriate for closing sites that did not receive waste after November 1990
California Integrated Waste Management Act of 1989 PRC 40502 & 43509	27 CCR 21830 Ch. 4, Subch. 4, Final Closure Plan Contents	Provides the content requirements for postclosure maintenance plans for solid waste disposal sites.	Applies to solid waste disposal sites that received waste after November 1990. Relevant and appropriate for closing sites that did not receive waste after November 1990.
California Integrated Waste Management Act of 1989 PRC 40502 & 43509	27 CCR 21880 Ch. 4, Subch. 4, Final Closure Plan Contents	Provides the content requirements to obtain certification that the solid waste disposal sites has closed pursuant to state standards.	Applies to solid waste disposal sites that received waste after November 1990. Relevant and appropriate for closing sites that did not receive waste after November 1990

27 CCR - California Code of Regulations, Title 27 ARAR - applicable or relevant and appropriate requirement ROD - Record of Decision ROD/RA - remedial design/remedial action

510 849 5285

PAGE.09

06/01/00 10:10 P.009/012

State ARARs for Solid Waste Disposal Site Excavation and Consolidation

Source	Standard, Requirement, Criterion, or Limitation	Description	Comment
California Integrated Waste Management Act of 1989 PRC 40502, 43020, 43021 and 43030	27 CCR 20510(a) Div. 2, Subdiv. 1, Ch. 3, Subch. 4, Art. 1, Sec. 20510(a), Disposal Site Operating Records	Weight/Volume Records: the weight or volume of waste accepted must be determined to an accuracy of ±10%	Applies to solid waste disposal sites as defined by Public Resources Code Section 40122.
California Integrated Waste Management Act of 1989 PRC 40502, 43020, 43021 and 43030	27 CCR 20510(b) Div. 2, Subdiv. 1, Ch. 3, Subch. 4, Art. 1, Sec. 20510(b), Disposal Site Operating Records	Excavation Records: records shall be maintained for excavations which may affect the safe and proper operation of the site or cause damage to adjoining properties.	Applies to solid waste disposal sites as defined by Public Resources Code Section 40122.
California Integrated Waste Management Act of 1989 PRC 40502, 43020, 43021 and 43030	27 CCR 20530 Div. 2, Subdiv. 1, Ch. 3, Subch. 4, Art. 1, Sec. 20530, Site Security	Site Security: the site shall be designed to discourage unauthorized access by persons or vehicles by using a perimeter barrier or topographic constraints. Areas within the site where open storage or ponding of hazardous materials occurs shall be separately fenced.	Applies to solid waste disposal sites as defined by Public Resources Code Section 40122.
California Integrated Waste Management Act of 1989 PRC 40502, 43020, 43021 and 43030	27 CCR 20540 Div. 2, Subdiv. 1, Ch. 3, Subch. 4, Art. 1, Sec. 20540, Roads	Roads: landfill roads must minimize dust and tracking of materials onto public roads. Such roads shall be kept in safe condition and maintained such that vehicle access and unloading can be conducted during inclement weather.	Applies to solid waste disposal sites as defined by Public Resources Code Section 40122.
California Integrated Waste Management Act of 1989 PRC 40502, 43020, 43021 and 43030	27 CCR 20630 Div. 2, Subdiv. 1, Ch. 3, Subch. 4, Art. 1, Sec. 20630, Confined Unloading	Confined Unloading: unloading of solid wastes shall be confined to as small an area as possible without resulting in traffic, personnel or public safety hazards. Requires normal deposition of waste at toe of fill.	Applies to solid waste disposal sites as defined by Public Resources Code Section 40122.
California Integrated Waste Management Act of 1989 PRC 40502, 43020, 43021 and 43030	27 CCR 20640 Div. 2, Subdiv. 1, Ch. 3, Subch. 4, Art. 1, Sec. 20640, Spreading and Compacting	Spreading and Compacting: Requires spreading and compacting of refuse in layers.	Applies to solid waste disposal sites as defined by Public Resources Code Section 40122.
California Integrated Waste Management Act of 1989 PRC 40502, 43020, 43021 and 43030	27 CCR 20650 Div. 2, Subdiv. 1, Ch. 3, Subch. 4, Art. 4, Sec. 20650, Grading of Fill Surface	Grading of Fill Surface: Covered surfaces of the disposal area shall be graded to promote run-off and prevent ponding, accounting for future settlement.	Applies to solid waste disposal sites as defined by Public Resources Code Section 40122.
California Integrated Waste Management Act of 1989 PRC 40502, 43020, 43021 and 43030	27 CCR 20660 Div. 2, Subdiv. 1, Ch. 3, Subch. 4, Art. 1, Sec. 20660, Stockpiling	Stockpiling: Requires stockpiled cover material and unsuitable native materials to be placed so as not to cause problems or interference with site operations.	Applies to solid waste disposal sites as defined by Public Resources Code Section 40122.
California Integrated Waste Management Act of 1989 PRC 40502, 43020, 43021 and 43030	27 CCR 20700 Div. 2, Subdiv. 1, Ch. 3, Subch. 4, Art. 1, Sec. 20700, Intermediate Cover	Intermediate Cover: Requires compacted earthen material of at least 12 inches on all surfaces of the fill where no additional solid waste will be deposited within 180 days.	Applies to solid waste disposal sites as defined by Public Resources Code Section 40122.

FEB 01 2005 15:57

510 849 5285

PAGE 10

STATE OF CALIFORNIA

State ARARs for Solid Waste Disposal Site Excavation and Consolidation

Source	Standard, Requirement, Criterion, or Limitation	Description	Comment
California Integrated Waste Management Act of 1989 PRC 40502, 43020, 43021 and 43030	27 CCR 20710(a) Div. 2, Subdiv. 1, Ch. 3, Subch. 4, Art. 1, Sec. 20710(a), Scavenging, Salvaging and Storage	Scavenging: Scavenging is prohibited.	Applies to solid waste disposal sites as defined by Public Resources Code Section 40122.
California Integrated Waste Management Act of 1989 PRC 40502, 43020, 43021 and 43030	27 CCR 20710(b) Div. 2, Subdiv. 1, Ch. 3, Subch. 4, Art. 1, Sec. 20710(b), Scavenging, Salvaging and Storage	Salvaging Permitted: Salvaging is permitted in a planned and controlled manner.	Applies to solid waste disposal sites as defined by Public Resources Code Section 40122.
California Integrated Waste Management Act of 1989 PRC 40502, 43020, 43021 and 43030	27 CCR 20710(c) Div. 2, Subdiv. 1, Ch. 3, Subch. 4, Art. 1, Sec. 20710(c), Scavenging, Salvaging and Storage	Storage of Salvage: Salvage material must be safely isolated for storage.	Applies to solid waste disposal sites as defined by Public Resources Code Section 40122.
California Integrated Waste Management Act of 1989 PRC 40502, 43020, 43021 and 43030	27 CCR 20710(c) Div. 2, Subdiv. 1, Ch. 3, Subch. 4, Art. 1, Sec. 20710(c), Scavenging, Salvaging and Storage	Removal: Storage time for salvage materials shall be limited to a duration specified by the enforcement agency.	Applies to solid waste disposal sites as defined by Public Resources Code Section 40122.
California Integrated Waste Management Act of 1989 PRC 40502, 43020, 43021 and 43030	27 CCR 20720 Div. 2, Subdiv. 1, Ch. 3, Subch. 4, Art. 1, Sec. 20720, Non-Salvageable Items	Non-Salvageable Items: Items capable of impairing public health shall not be salvaged without approval by the agencies.	Applies to solid waste disposal sites as defined by Public Resources Code Section 40122.
California Integrated Waste Management Act of 1989 PRC 40502, 43020, 43021 and 43030	27 CCR 20730 Div. 2, Subdiv. 1, Ch. 3, Subch. 4, Art. 1, Sec. 20730, Volume Reduction & Energy Recovery	Volume Reduction and Energy Recovery: Volume reduction and energy recovery are permitted in planned and controlled manners. Processing area shall be confined to specified, clearly identifiable areas of the site.	Applies to solid waste disposal sites as defined by Public Resources Code Section 40122.
California Integrated Waste Management Act of 1989 PRC 40502, 43020, 43021 and 43030	27 CCR 20760 Div. 2, Subdiv. 1, Ch. 3, Subch. 4, Art. 1, Sec. 20760(c), Nuisance Control	Nuisance Control: Each site shall be operated and maintained so as not to create a public nuisance.	Applies to solid waste disposal sites as defined by Public Resources Code Section 40122.
California Integrated Waste Management Act of 1989 PRC 40502, 43020, 43021 and 43030	27 CCR 20780(b) Div. 2, Subdiv. 1, Ch. 3, Subch. 4, Art. 4, Sec. 20780(b), Open Burning & Burning Wastes	Burning Wastes: Burning wastes shall be extinguished.	Applies to solid waste disposal sites as defined by Public Resources Code Section 40122.
California Integrated Waste Management Act of 1989 PRC 40502, 43020, 43021 and 43030	27 CCR 20790 Div. 2, Subdiv. 1, Ch. 3, Subch. 4, Art. 1, Sec. 20790, Nuisance Control	Leachate Control: The operator shall ensure that leachate is controlled to prevent contact with the public.	The state does not intend that subsurface leachate monitoring and collection systems need to be installed at existing sites unless there is evidence of leachate production and/or accumulation. Applies to solid waste disposal sites as defined by Public Resources Code

STATE OF CALIFORNIA - PUBLIC RESOURCES CODE

State ARARs for Solid Waste Disposal Site Excavation and Consolidation

Source	Standard, Requirement, Criterion, or Limitation	Description	Comment
			Section 40122.
California Integrated Waste Management Act of 1989 PRC 40502, 43020, 43021 and 43030	27 CCR 20800 Div. 2, Subdiv. 1, Ch. 3, Subch. 4, Art. 4, Sec. 20800, Dust Control	Dust Control: The operator shall take adequate measures to minimize the creation of dust and prevent safety hazards due to obscured visibility.	Applies to solid waste disposal sites as defined by Public Resources Code Section 40122.
California Integrated Waste Management Act of 1989 PRC 40502, 43020, 43021 and 43030	27 CCR 20810 Div. 2, Subdiv. 1, Ch. 3, Subch. 4, Art. 4, Sec. 20810, Dust Control	Vector and Bird Control: The operator shall take adequate measures to control or prevent the propagation, harborage, or attraction of flies, rodents, or other vectors, and to minimize bird problems.	Applies to solid waste disposal sites as defined by Public Resources Code Section 40122.
California Integrated Waste Management Act of 1989 PRC 40502, 43020, 43021 and 43030	27 CCR 20820 Div. 2, Subdiv. 1, Ch. 3, Subch. 4, Art. 4, Sec. 20820, Drainage and Erosion Control	Drainage And Erosion Control: The drainage system shall be designed and maintained to: ensure integrity of roads, structures, and gas monitoring and control systems; prevent safety hazards; and prevent exposure of waste.	Applies to solid waste disposal sites as defined by Public Resources Code Section 40122.
California Integrated Waste Management Act of 1989 PRC 40502, 43020, 43021 and 43030	27 CCR 20830 Div. 2, Subdiv. 1, Ch. 3, Subch. 4, Art. 4, Sec. 20830; Grading of Fill Surface	Litter Control: Litter and loose materials shall be routinely collected and disposed of properly.	Applies to solid waste disposal sites as defined by Public Resources Code Section 40122.
California Integrated Waste Management Act of 1989 PRC 40502, 43020, 43021 and 43030	27 CCR 20919 Div. 2, Subdiv. 1, Ch. 3, Subch. 4, Art. 6, Sec. 20919, Gas Control	Gas Control: The operator shall cause the site to be monitored for the presence and movement of landfill gas and take any necessary action to control such gases in the event that the gas causes a hazard or nuisance.	Applies to solid waste disposal sites as defined by Public Resources Code Section 40122.
California Integrated Waste Management Act of 1989 PRC 40502, 43020, 43021 and 43030	27 CCR 21600 Div. 2, Subdiv. 1, Ch. 4, Subch. 3, Art. 2, Sec. 21600, Report of Disposal Site Info	Report of Disposal Site Information: The planning and procedural requirements necessary to ensure that solid waste is handled and disposed in manners that protect public health and safety and the environment must be conducted.	Applies to operating solid waste disposal sites as defined by Public Resources Code Section 40122.

14 CCR - California Code of Regulations, Title 14 ARAR - applicable or relevant and appropriate requirement ROD - Record of Decision RD/RA - remedial design/remedial action

FEB 01 2005 15:59

S10 849 5285

PAGE: 12

02/01/03 10:10 F.012/012