



California Regional Water Quality Control Board

San Diego Region



Linda S. Adams
Secretary for
Environmental Protection

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9174 Sky Park Court, Suite 100, San Diego, California 92123-4340
(858) 467-2952 • Fax (858) 571-6972
<http://www.waterboards.ca.gov/sandiego>

April 23, 2010

Ms. Michelle Stress
County of San Deigo
Department of Public Works
5201 Ruffin Road, Suite D
San Diego, CA 92123

VIA CERTIFIED MAIL
7008 1140 0002 4060 6838

In reply refer to:
NCGW:210029:cprowell

Dear Ms. Stress:

SUBJECT: NOTICE OF VIOLATION NO. R9-2010-0075 AND INSPECTION REPORT, BONSCALL LANDFILL, TWIN OAKS VALLEY ROAD, BONSCALL, CA

Enclosed is **Notice of Violation (NOV) No. R9-2010-0075** for Bonsall Landfill located in Bonsall, California. The California Regional Water Quality Control Board, San Diego Region (Regional Board) identified the violations cited in the NOV during our inspection on April 13, 2010 as documented in the attached inspection report. Corrective measures and further reporting should be implemented immediately to address the violations.

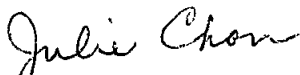
Volatile organic compounds (VOCs) have migrated from Bonsall Landfill to groundwater resulting in a condition of pollution at the Bonsall Landfill. As documented by the Amended Report of Waste Discharge (AROWD) submitted on September 30, 2009, the potential sources of VOCs in groundwater are landfill gas impacts to groundwater or interaction of waste and water. Failure to maintain the surface drainage systems and to correct for the effects of settlement have contributed to the condition of pollution and constitute non-compliance with the Order as documented in the attached NOV.

Based on the results of the feasibility study included in the AROWD, upgrading the storm water conveyance system to improve drainage of surface water and upgrading the cover system to address grade reversals resulting from settlement of the waste body were identified as reasonable steps to address the condition of pollution at the site. Provision C.4 of Order No. 97-15 states: "The discharger shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from non-compliance with this Order, including such accelerated or additional monitoring as may be necessary to determine the nature and impact of the noncompliance." Failure to take corrective actions according to the schedule proposed in the AROWD is a violation of Provision C.4.

If you have any questions regarding this matter, please contact Ms. Cheryl Prowell at (858) 467-2745 or by e-mail at cprowell@waterboards.ca.gov. Written correspondence should be directed to the following address:

Julie Chan, Groundwater Basins Branch Chief
California Regional Water Quality Control Board
San Diego Region
9174 Sky Park Court, Suite 100
San Diego, CA 92123-4340
Attn: Cheryl Prowell, Northern San Diego County Groundwater Unit

Sincerely,



Julie Chan, P.G.
Chief, Groundwater Basins Branch

JAC;jh:rwm:clp

Enclosures: Notice of Violation No. R9-2010-0075
Landfill Inspection Report

cc w/ Enclosures: Ms. Rebecca Lafreniere, Supervising Environmental Health Specialist
County of San Diego Solid Waste Local Enforcement Agency
9325 Hazard Way, San Diego, CA 92123

CIWQS:

Regulatory Measure ID	373872
Place ID	210029
Inspection ID	2242880
Violation ID	868030 868031 868032

April 23, 2010

IN THE MATTER OF)
)
County of San Diego)
Department of Public Works)
5201 Ruffin Road, Suite D)
San Diego, CA 92123)
)
)
)

NOTICE OF VIOLATION
NO. R9-2010-0075

WDID NO.
9 000000173

In reply refer to:
NCGW:210029:cpowell

Waste Discharge Requirements Order No. 97-15

Facility: Bonsall Landfill, Twin Oaks Valley Road, Bonsall, CA 92003

YOU ARE HEREBY NOTIFIED THAT:

The County of San Diego (County) is in violation of waste discharge requirements issued by the California Regional Water Quality Control Board, San Diego Region (San Diego Water Board) in Order No. 97-15, *Waste Discharge Requirements (WDRs) for Post-Closure Maintenance of County of San Diego Bonsall Sanitary Landfill, San Diego County*. These violations subject the County to possible further enforcement action by the Regional Board, including administrative enforcement orders requiring you to cease and desist from violations, or to clean up waste and abate existing or threatened conditions of pollution or nuisance; administrative civil liability in amounts of up to \$5,000 per day per violation;¹ referral to the State Attorney General for injunctive relief; and referral to the District Attorney for criminal prosecution.

The San Diego Water Board conducted an inspection on April 13, 2010. The attached inspection report provides documentation of specific violations of Order No. 97-15 as modified by Addendum 1.

Summary of Violations:

- I. FAILURE TO MAINTAIN THE SITE TO CORRECT FOR THE EFFECTS OF SETTLEMENT OR OTHER ADVERSE FACTORS.

Maintenance Specification B.6: "The structural integrity and effectiveness of all containment structures and the existing cover shall be maintained as necessary to correct the effects of settlement or other adverse factors."

¹ Under authority of California Water Code section 13350.



During the site inspection conducted on April 13, 2010, San Diego Water Board staff observed evidence of settlement including irregular grades throughout the site, cracked asphalt on access roads throughout the site, and standing water at four locations within the footprint of waste. Depressed or ponded areas, such as those caused by settlement, allow storm water to infiltrate into the cover instead of being conveyed off-site, as designed. This compromises the effectiveness of the cover system allowing infiltrating water to contact waste materials and promote production of landfill gas or leachate.

II. INADEQUACY OF THE SURFACE DRAINAGE SYSTEM TO HANDLE THE RAINFALL FROM A 100-YEAR 24-HOUR STORM.

Maintenance Specification B.5: "Waste containment structures/units shall be adequately protected from any washout, erosion of wastes or cover material. The surface drainage system shall be designed to adequately handle the rainfall from a 100-year 24-hour storm event."

The August 13, 2010 inspection was conducted the day after 0.79 inches of rain fell at the site.² The rainfall received in the last storm is minor in comparison to the 6-inches of rain expected from a 100-year 24-hour storm event.³ Although stormwater best management practices (BMPs) were deployed at the site, the combination of BMPs and surface drainage systems were inadequate to protect the site from erosion. Rills were observed during the site inspection on dirt access roads within the waste footprint. This constitutes erosion of cover material. Given the ponding and erosion observed after a minor storm, the site is not maintained adequately to handle the rainfall from a 100-year 24-hour storm event.

III. INADEQUACY OF MAINTENANCE OF THE SURFACE DRAINAGE FACILITIES AND LANDFILL COVER.

Maintenance Specification B.11: "All areas, including surface water drainage courses, shall be maintained to minimize erosion. The landfill cover shall be maintained to minimize percolation of liquids through wastes."

The areas of ponding and the evidence of settlement observed during the inspection indicate that the County has failed to adequately maintain the site to correct the results of settlement and maintain drainage throughout the site. Although the standing water in ponded areas observed during the inspection

² As reported by AccuWeather.com <http://www.accuweather.com/us/ca/bonsall/92003/forecast-month.asp?mnyr=4-01-2010&view=table>

³ Based on the Rainfall Isopleth Maps included in Appendix B of the County of San Diego Hydrology Manual: <http://www.sdcounty.ca.gov/dpw/floodcontrol/floodcontrolpdf/hydro-hydrologymanual.pdf>

April 23, 2010

remained on relatively impermeable surfaces, such as asphalt, moist soils at the edge of the impervious surfaces, indicate that during the storm event the areas of standing water were larger, allowing rain water to infiltrate into cover materials and ultimately percolate through wastes.

Julie Chan
Julie Chan, P.G.
Chief, Groundwater Basins Branch

4/23/10
Date

JAC:jh:rwm:clp



Landfill Inspection Report



Name of Facility: Bonsall Landfill **Date:** 4/13/2010
Owner: County of San Diego **WDR No.:** 97-15
Operator: County of San Diego **Inspection Type:** B
Facility Address: Twin Oaks Valley Rd, Bonsall **Mgr./Sup. Of Site:** Candace Gibson
RB Inspector: Cheryl Prowell

Checked? (Yes/No)	Description	Comments
	WDR/File Review	
Yes	RB File Review	All Files
Yes	WDR Status	Closure
No	Permitted Waste: Hazardous, Nonhazardous, Designated, Inert, Sewage Sludge, Ash, Auto Shredder, Liquids, Condensate, Other	
Yes	Are Self Monitoring Reports Submitted On Time?	Yes
Unknown	Have Past Violations Been Corrected?*	Unknown
	*If no, identify violation(s):	
	Field Inspection	
Yes	Site Activity	Closed
Yes	WDR Reflects Current Discharge?*	Yes
	*If no, identify: Exposed Waste, Litter Off-site, Seeps, Leachate, Ponding, Poor Drainage, Odors, Other Nuisance Condition	
	Cover Material, Site Conditions/Maintenance	
Yes	Type of Cover	Final Cover
No	Does Cover Provide Adequate Protection?*	No
	*If no, identify: Exposed Waste, Litter Off-site, Seeps, Leachate, Ponding, Poor Drainage, Odors, Other Nuisance Condition	Ponding and poor drainage noted.
	Precipitation/Drainage Controls	
No	Is Drainage System Adequate?*	No
	*If no, identify: Erosion, Downcutting, Flooding, Ponding, Does Not Control Peak Flows	Ponding and poor drainage noted.
	Water Quality Monitoring Program	
Yes	Type of Monitoring Program: Surface Water, Groundwater, Unsaturated Zone, Condensate, Leachate, Other	Groundwater
Yes	Is Monitoring Program Adequate?*	Yes
	*If no, identify: Construction Problem, Broken, Could Not Find, Unknown	
No	Samples Collected? (sample no. & location)	



Landfill Inspection Report



Additional Comments: identify each violation and/or correction

Several violations of the WDR Order No. 97-15 were noted:

Ponding was observed in four areas of the site. Drainage features were damaged or inadequate in several areas. Details are provided on the attached photographic log. These are violations of General Maintenance Requirement B.6 which requires that the "structural integrity and effectiveness of all containment structures and the existing cover shall be maintained as necessary to correct the effects of settlement or other adverse factors." The staff enforcement letter sent June 1, 2009 identified this violation in comment 11.

As reported on Accuweather, 0.79 inches of rain were received in Bonsall on April 12. Given the amount of standing water, rilling, and accumulated sediment observed one day after this moderate rain event the drainage structures at the site are inadequate to handle the approximately 6 inches of rain anticipated from a 100-year 24-hour storm event. General Maintenance Requirement B.5 requires that the "surface drainage system shall be designed to adequately handle the rainfall from a 100-year 24-hour storm event." The Amended Report of Waste Discharge submitted on October 30, 2009 acknowledged that grading and drainage upgrades are required to correct this situation.

The Amended Report of Waste Discharge identified the repairs needed to comply with maintenance requirement B-5 as an appropriate action to address the condition of pollution at the landfill. Failure to implement the corrective action measures in the approved AROWD constitutes a violation of Provision C.4, which requires the discharger to "take all reasonable steps to minimize or correct any adverse impact on the environment resulting from non-compliance with this order."

Signed by Regional Board Inspector:

[Handwritten Signature]

Date:

4/19/2010

Received by Manager/Supervisor:

[Handwritten Signature]

Date:

4-19-2010

Attachments: Landfill Inspection Photos



Site Name: Bonsall Landfill
Case Number: 210029
Activity: Landfill Inspection
Observed by: Cheryl Prowell and Barry Pulver
Date: April 13, 2010



Photo 1: Ponding on access road just inside gate. Standing water was also observed in two other areas on the access road.



Photo 2: View from access road looking west. Note circular cracks on the roadway indicating subsidence. Similar cracking was observed throughout the site.

Site Name: Bonsall Landfill
Case Number: 210029
Activity: Landfill Inspection
Observed by: Cheryl Prowell and Barry Pulver
Date: April 13, 2010



Photo 3: View of same flumes facing east. Flume is bent near outlet limiting the capacity of the flume. Vegetation is overgrown, obstructing any drainage control features, in the 20-foot area between flumes allowing water to infiltrate into the landfill.



Photo 4: Erosion rills on sideslope southeast of top deck.

Site Name: Bonsall Landfill
Case Number: 210029
Activity: Landfill Inspection
Observed by: Cheryl Prowell and Barry Pulver
Date: April 13, 2010



Photo 5: Flume paralleling access road. Note standing water approximately 3 inches deep. Sediment underlying water was approximately 3 inches deep. Vegetation surrounding flume is overgrown.

COMPLETE THIS SECTION

Items 1, 2, and 3. Also complete restricted Delivery if desired. name and address on the reverse can return the card to you. card to the back of the mailpiece, front if space permits.

Addressed to:

Michelle Stress
 City of San Diego
 Department of Public Works
 5201 Ruffin Road, Suite D
 San Diego, CA 92123

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Addressee
X

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
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 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

Number (from service label) 7008 1140 0002 4060 6838

11, February 2004 Domestic Return Receipt 102595-02-M-1540

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Sent To Ms. Michelle Stress
 Street, Apt. No., or PO Box No. 5201 Ruffin Road, Suite D
 City, State, ZIP+4 San Diego, CA 92123

PS Form 3800, August 2006 See Reverse for Instructions

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