

**DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
CITY OF CRESCENT CITY
COUNTY OF DEL NORTE
STATE OF CALIFORNIA**

**Board of Supervisors Chambers
Flynn Center 981 H Street
Crescent City, CA**

Regular Session Tuesday January 19, 2016 3:30 PM

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The Solid Waste Management Authority of the City of Crescent City and the County of Del Norte, State of California, is now meeting in Regular Session. Only those items that indicate a specific time will be heard at the assigned time. All items may be taken out of sequence to accommodate public and staff availability.

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All documents referred to in this agenda are available at the Office of the Del Norte Solid Waste Management Authority at 1700 State Street in Crescent City, between the hours of 8 A.M. and 5 P.M. Monday through Friday OR online at www.recycledelnorte.ca.gov

For more information call 465-1100 or email dnswwma@recycledelnorte.ca.gov

3:30 PM CALL MEETING TO ORDER / ROLL CALL

PLEDGE OF ALLEGIANCE

PUBLIC COMMENTS:

3:30 PM ANY MEMBER OF THE PUBLIC MAY ADDRESS THE SOLID WASTE MANAGEMENT AUTHORITY ON ANY MATTER ON OR OFF THE AGENDA. After receiving recognition from the Chair, please give your name and address for the record. Comments will be limited to three minutes.

OPEN SESSION ITEMS:

1. CONSENT AGENDA

- 1.1 Approve minutes, Regular Session, Tuesday, December 22, 2015. **
- 1.2 Approve payment of invoice 123156 to North Coast Laboratories in the amount of \$6,327.00 **
- 1.3 Approve payment of invoice 41797 to Scales Northwest in the amount of \$7,015.75 **
- 1.4 Approve budget transfer in the amount of \$16,487.00 **

END CONSENT AGENDA

DISCUSSION/ACTION ITEMS

2. LANDFILL POSTCLOSURE

- 2.1 Discussion and possible approval of a contract with Richard B. Davis to conduct an aerial survey of the Crescent City Landfill for an amount not to exceed \$3,790.00 **
- 2.2 Discussion and possible action regarding the Semi-Annual Report regarding the Crescent City Landfill for July-December 2015 to the North Coast Regional Water Quality Control Board. **
- 2.3 Discussion and possible action regarding letters to residential properties adjacent to the Crescent City Landfill seeking permission to collect and analyze samples from residential water wells. **
- 2.4 Discussion and possible action regarding Lawrence & Associates' Proposed Updates to the Monitoring & Reporting Program for the Crescent City Landfill, dated January 14, 2016; and possible approval to pay invoice 23175 in the amount of \$5,022.50 . **

3. COLLECTIONS FRANCHISE

- 3.1 Acknowledge appointment of Jeremy Herber as General Manager of Recology Del Norte. **

4. TRANSFER STATION – No Items

5. OTHER GENERAL SOLID WASTE AUTHORITY MATTERS

- 5.1 Discussion and possible action regarding the election of the Chair of the Del Norte Solid Waste Management Authority for 2016. **
- 5.2 Receive and file the Del Norte Solid Waste Management Authority Annual Financial Report dated June 30, 2015 by Patel & Associates LLP, Certified Public Accountants and possible approval to pay invoice 9064 in the amount of \$7,350.00 **
- 5.3 Discussion and possible action regarding the Del Norte Solid Waste Management Authority Work Plan for 2016. **

- 5.4 Discussion and possible action regarding sending letters to Oppose Assembly Bill 1063. **

6. DIRECTOR'S & TREASURER'S REPORTS

Agenda items 6.1 through 6.5 are provided for information only

- 6.1 Director's Report **
- 6.2 Treasurer/Controller Report for November 2015 **
- 6.3 Claims approved by Director for December 2015 **
- 6.4 Monthly Cash and Charge Reports for December 2015 **
- 6.5 Earned Revenue Comparisons between FY14/15 and FY15/16 **

7. CLOSED SESSION ITEMS:

- 7.1 PENDING LITIGATION -- Pursuant to Government Code Section 54956.9(d)(2) significant exposure to litigation (2 cases).

8. ADJOURNMENT

Adjourn to the next meeting of the Del Norte Solid Waste Management Authority scheduled for 3:30 P.M., February 16, 2016 at the Del Norte County Board of Supervisors' Chambers, 981 H Street, Suite 100 in Crescent City.

**** Asterisks next to Agenda Item indicates an associated attachment**

**DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
CITY OF CRESCENT CITY
COUNTY OF DEL NORTE
STATE OF CALIFORNIA
Regular Session, Tuesday December 15, 2015, 3:30 PM**

PRESENT: Commissioner Ron Gastineau
Commissioner Rick Holley, Chair
Commissioner Martha McClure, Vice Chair
Director Tedd Ward
Legal Counsel Martha Rice
Authority Clerk Katherine Brewer

ABSENT: County Commissioner Position vacant pending appointment
Public Member Position vacant pending appointment

ALSO PRESENT: Kayleen Warner, Authority Program & Facilities Coordinator
Wes White, Hambro Waste Solutions Group
Lorie Poole, Recology Del Norte

3:30 PM CALL MEETING TO ORDER

Chairman Holley called the meeting to order in regular session at 3:31 p.m.

PLEDGE OF ALLEGIANCE

The pledge was led by Chairman Holley.

3:30 PM PUBLIC COMMENTS:

The following person(s) addressed the Authority:

Elizabeth Henry, County resident, thanked Board Members for their preparedness, attention, and positive treatment of the public.

OPEN SESSION ITEMS:

1. CONSENT AGENDA

1.1 Approve minutes, Regular Session, Tuesday, November 17, 2015.

1.2 Approve allocation of five Authority-directed bin pulls for use at the Gasquet and Klamath Transfer Stations before 31 December 2015. **031205, 180510**

1.3 Approve budget transfer in the amount of \$12.00.

END CONSENT AGENDA

On a motion by Commissioner Gastineau, seconded by Commissioner McClure, and unanimously carried on a polled vote, the Del Norte Solid Waste Management Authority approved and adopted the consent agenda, consisting of items 1.1-1.3, as presented.

DISCUSSION/ACTION ITEMS

2. **LANDFILL POSTCLOSURE – No Items**

3. **COLLECTIONS FRANCHISE – No Items**

4. **TRANSFER STATION – No items**

5. **OTHER GENERAL SOLID WASTE AUTHORITY MATTERS**

5.1 Introduction of the Authority's Facilities and Programs Coordinator Kayleen Warner.

The Authority's new Facilities and Programs Coordinator, Kayleen Warner, was introduced to Board Members.

5.2 Consideration of an appeal by Randal South regarding the level of service at 1175 Lakeview. **151801, 031512**

Mr. South was not in attendance. The following person(s) addressed the Authority:

Elizabeth Henry, County resident, encouraged the Board to deny the appeal. She felt Mr. South's remarks and written material were offensive and slanderous.

Kathryn Murray, County resident, thought the ordinance was a valuable tool to keep blight out of the City and County. She also encouraged the Board to deny the appeal.

On a motion by Commissioner Gastineau, seconded by Commissioner McClure, and unanimously carried on a polled vote, the Del Norte Solid Waste Management Authority denied Randal South's appeal regarding the level of service at 1175 Lakeview and confirmed that under Authority Ordinance 2008-01, the basic level of collection services for rental properties is weekly collection of 32 gallons of trash and at least 32 gallons of recyclable materials for each tenant unit, to be provided either through Recology Del Norte or by the Responsible Party (i.e. property owner or manager) for that property.

6. DIRECTOR'S & TREASURER'S REPORTS

Agenda items 6.1 through 6.5 are provided for information only

- 6.1 Director's Report. **231501**
- 6.2 Treasurer/Controller Report for October 2015.
- 6.3 Claims approved by Director for November 2015.
- 6.4 Monthly Cash and Charge Reports for November 2015.
- 6.5 Earned Revenue Comparisons between FY14/15 and FY15/16.

The above-listed reports were presented and accepted.

7. CLOSED SESSION ITEMS:

- 7.1 PUBLIC EMPLOYEE PERFORMANCE EVALUATION
(Gov't code 54957) Title: Director

The Chairman recessed the open meeting of the Del Norte Solid Waste Management Authority and convened in closed session at 4:01 p.m. The closed session was adjourned at 4:46 p.m. and the meeting reconvened immediately in open session. Counsel reported that no action was taken during closed session.

8. ADJOURNMENT

Adjourn to the Regular Meeting of the Del Norte Solid Waste Management Authority scheduled for 3:30 p.m., January 19, 2016 at the Del Norte County Board of Supervisors' Chambers, 981 H Street, Suite 100 in Crescent City.

There being no further business to come before the Authority, the Chairman adjourned the meeting at 4:46 p.m., until the Regular Meeting on January 19, 2016.

 Richard Holley, Chair
 Del Norte Solid Waste Management Authority

Date / /

ATTEST:

 Martha McClure, Vice Chair
 Del Norte Solid Waste Management Authority

Date / /

Submitted:

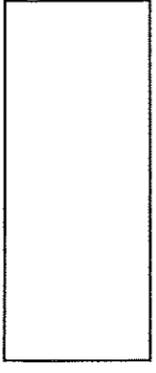
Katherine Brewer, Clerk
Del Norte Solid Waste Management Authority

Date / /

Vendor North Coast Laboratories, Ltd.
5680 West End Road

Claim ID: 7502
Page 1 of 1

AUDITOR COPY



Atcata CA 95521

Special
Warrant
Routing

PBSP Expense
 Change of Address

Vendor ID:
10671

Fund	Dept	Line	Proj	Amount	Description
422	421	20232		\$6,327.00	INV 123156 Landfill groundwater testing

Total Claim: \$6,327.00

I HEREBY CERTIFY THE ARTICLES OR SERVICES DESCRIBED ON THE ATTACHED INVOICES WERE NECESSARY FOR USE BY THE DEPARTMENT AND HAVE BEEN RECEIVED, AND THAT NO PRIOR CLAIM FOR SAME HAS BEEN

1.2

X

Signature of Department Head/Authorized Deputy

1/6/2016

Claim Date



**NORTH COAST
LABORATORIES LTD.**

DATE: September 08, 2015

Remit To: North Coast Laboratories, Ltd.

5680 West End Road
Arcata, CA 95521-9202

Attn: Accounts Receivable

Invoice To: Del Norte Solid Waste Authority
1700 State Street
Crescent City, CA 95531

Attn: Tedd Ward

Work Order: 1508331

PO Number:
Project Name: Landfill Groundwater

Date Received: 8/19/2015

INVOICE

Item	Matrix	Code	Qty	List Price	Test Total
Chemical Oxygen Demand	Aqueous	5031.31	13	\$30.00	\$390.00
DNSWA Groundwater Dissolved Metals	Aqueous	5032.32	13	\$225.00	\$2,925.00
DNSWA Groundwater Minerals	Groundwater	5031.31	13	\$104.00	\$1,352.00
EPA 8260B	Aqueous	5022.22	13	\$120.00	\$1,560.00
Geotracker Reporting		5099.00	1	\$100.00	\$100.00
Order TOTAL:					\$6,327.00

Discount: 0.00%
 Surcharge: 0.00%
 Misc Charges: \$0.00
 Subtotal: \$6,327.00
 Payment Received: \$0.00
INVOICE Total \$6,327.00

Comments:

10671/20232

Del Norte County Budget Transfer Request

Department Name	Fund	Dept.	Line Item	Description	Budget Transfer Amount(s)	
					Reduce Expenditures or Increase Revenue	Increase Expenditures or Reduce Revenue
Solid Waste	422	421	20236	Security		\$ 187
Solid Waste	422	421	10015	Part-time / Temporary		\$ 5,000
Solid Waste	422	421	20235	Treasurer		\$ 2,000
Solid Waste	422	421	20171	Maintenance - Vehicle		\$ 1,800
Solid Waste	422	421	20232-02	Data Processing - Software		\$ 500
Solid Waste	422	421	20180	Maintenance - Structures & Improvements / TS Maintenance		\$ 7,000
Solid Waste	422	421	10010	Payroll	\$ 16,487	
Total Amounts					\$ 16,487	\$ 16,487

Department complete and send to Auditor's Office for transfer number before sending to CAO. Round amounts up to whole dollars.

Department Justification - Include cover letter that addresses the following: 1) Reason for request; 2) Why sufficient balances exist to finance transfer; 3) Why request

Department Head Signature _____ Date _____

Auditor's Office: Sufficient balances exist per above
(Under \$100 Auditor's Office approves)

County Administrative Officer: _____ (Under \$1,000 - CAO approves)

Deputy Auditor-Controller _____ Date _____

TR No. _____ Budget Revision No. _____

Includes Revenue Appropriation _____ Requires 4/5ths Vote _____

County Administrative Officer _____ Date _____

Recommendation: Approve
Deny
Submit for Board approval

Passed by Board of Commissioners of the Del Norte Solid Waste Management Authority on 19 January 2016.

Ayes:
Noes:
Absent:

Attest: Clerk of the Board

By: _____
Katherine Brewer

Martha McClure, Vice-Chair
Del Norte Solid Waste Management Authority

14

Vendor Powell Scales
39120 W. Scio Road

Claim ID: 7519
Page 1 of 1

AUDITOR COPY

Scio OR 97374

Vendor ID:

12193

PBSP Expense

Change of Address

Special
Warrant
Routing

Fund	Dept	Line	Proj	Amount	Description
422	421	20181		\$0.00	Work Order #25712
				\$7,015.75	inv. #41797 Repairs & Recertification of Scales

Total Claim: \$7,015.75

1.3

I HEREBY CERTIFY THE ARTICLES OR SERVICES DESCRIBED ON THE ATTACHED INVOICES WERE NECESSARY FOR USE BY THE DEPARTMENT AND HAVE BEEN RECEIVED, AND THAT NO PRIOR CLAIM FOR SAME HAS BEEN

X

Signature of Department Head/Authorized Deputy

1/15/2016

Claim Date

Corporate Office

39120 West Scio Road
 Scio, Oregon 97374
 Phone: (800)451-0187
 Local: (503)394-3660
 Fax: (503)394-3502



Spokane Office

5602 East Desmet Avenue
 PO Box 11335
 Spokane, Washington 99211
 Phone: (509)535-4295
 Fax: (503)535-4296

12193 - Vendor

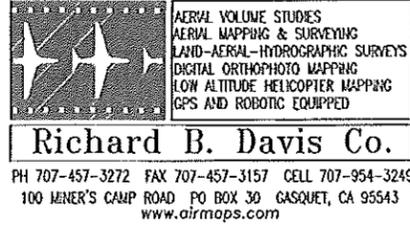
Invoice # 41797

Bill To
Del Norte County Solid Waste Authority 1700 State St Crescent City, CA 95531
Ph: Main: (707) 46... Fax:

Location
Del Norte Gate Scales Kevin 1700 State St Elk Valley Rd Crescent City, Ca 95531 Zone 12

Invoice Date	P.O. Number	Rep	Work Order #	Completed	Due Date
1/14/2016		AlexS	25712	1/10/2016	2/13/2016
Quantity	Description		Price Each	Amount	
22.75	Indicator won't zero. Service and calibrate truck scale. Service Labor -- Preferential Overtime 1/9/16 Alex S - Replaced 2 loadcells and 2 summing cards. Scale still has issues, will fix tomorrow. (6hr drive)(8.5hr on site) 1/10/16 Alex S - Tested, adjusted and calibrated as needed. As left, scale working fine and in tolerance. Sealed calibration port and affixed calibration label. (5.5hr drive)(2.75hr on site) Complete		135.00	3,071.25	
1	Zone 12 -- Test Truck		1,494.00	1,494.00	
1	Per Diem -- Service Tech		150.00	150.00	
2	4 Channel Unibridge-Board Only -No Box		235.00	470.00T	
2	RL75058 Double Ended Shear Beam Load Cell - 60,000 lb Serial Numbers: 21379072, 63468329		835.00	1,670.00T	
	Sales Tax -- Crescent City, Calif			160.50	
<div style="border: 1px dashed black; padding: 5px; text-align: center;"> <i>Important: We are now sending your scale calibration reports (if any) along with your invoice. Please pass on to the appropriate people. Thank you!</i> </div>					
Thank you for your business.			Total	\$7,015.75	
Please Send Your Payment to: Powell Scales Northwest, Inc. 39120 W Scio Rd Scio OR 97374			Payments/Credits	\$0.00	
			Balance Due	\$7,015.75	

Terms: All past due invoices will be charged interest at the rate of 2% per month.



7 January 2016

Mr. Tedd Ward, M.S. Director
Del Norte Solid Waste Management Authority
1700 State Street
Crescent City, CA 95531

Ref: 2016 Proposal For Topographic Mapping at Crescent City Landfill

Dear Tedd;

Thank you again for providing me with the opportunity to submit a proposal for the work on the Crescent City landfill. I am sorry I could not submit in November, but we were really "snowed under" at that time.

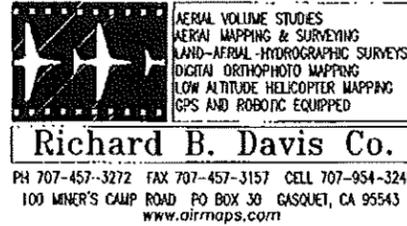
My proposal is attached for your review.

Please call me at your convenience with any questions.

Sincerely,


Richard B. Davis
California Professional Surveyor LS3340

2.1



PROPOSAL FOR AERIAL SURVEYING SERVICES CRESCENT CITY LANDFILL, 2016

INITIAL STATEMENT

This Proposal is based on the RFP provided by the Del Norte Solid Waste Management Authority, which had a due date of 03 November 2015. Because of a heavy work load, I respectfully declined to submit a bid. As there were either few or no bids submitted, in December of 2015 Mr. Ward asked if I would submit a proposal to perform this work prior to March of 2016. My proposal is as follows.

SURVEYOR'S LICENSE

My California Professional Land Surveyor's License (LS 3340) is current and in good standing. A Copy of the renewal that is valid from July 1 2014 through June 30, 2016, is attached. This license has been in a continuously current state since 1967.

EXPERIENCE

I have been providing land, aerial and underwater Surveying and Mapping services throughout the contiguous Western States, Alaska, Hawaii, and the South Pacific for over 40 years. I am licensed as a Professional Surveyor in California, Oregon, Washington, Idaho and Alaska.

I am a currently licensed pilot, and have been actively piloting aircraft since 1962. I own a twin engine mapping plane (Cessna 310), which is based at my home in Gasquet, CA. This plane is equipped with a Wild/Leica 6" focal length mapping camera that is controlled by GPS signals. I have several thousand hours as pilot in command on photo missions for aerial surveys.

I have a great deal of experience in performing volumetric aerial surveys, and have performed many for your agency at the Crescent City Landfill prior to 2010. I have been performing volumetric surveys for many large companies or agencies for over 39 years.

PROPOSED METHOD FOR AERIAL SURVEY OF THE CRESCENT CITY LANDFILL

I have carefully reviewed the documents you included in your RFP dated 03 November 2015.

Since accurate ground survey X-Y-Z points must be visible in the aerial photography, I plan to place new aerial targets on and around the landfill site. I will use our survey-grade GPS units to develop coordinates and elevations from Navstar satellites on each of these targets. Horizontal X-Y coordinates will be based on the North American Datum of 1927 (NAD27) and elevations will be based on the National Geodetic Vertical Datum of 1929 (NGVD 29). These coordinates and elevations will exactly match those upon which the 2006 survey was based, so that an accurate comparison of the 2006 surface vs the 2016 surface can be developed.

When the aerial targets are in place, aerial photography of the site will be taken as soon thereafter as weather conditions permit. The aerial digital imagery will then be processed by photogrammetric computer software to extract the real world X_Y_Z of points across the surface of the landfill, and then develop the surface topography of the site.

AutoCAD Terrain software will be utilized to compare the 2006 surface topography to the 2016 surface topography, and to develop the volumetric differences between the two surfaces. The resulting data, along with the maps, ortho-photography and pertinent data will be submitted to you as specified in the RFP.

FEES

Our fees for all of the work described in the RFP for this project will be **\$3,790.00**. Exhibit "A" which is attached hereto shows the detailed cost schedules for this work.

WORK SCHEDULE

You have requested a delivery date of not later than March 1, 2016 for the work to be completed and delivered. We will meet that date, and try to deliver earlier if possible.

Thank you for affording me the opportunity to submit this proposal.

Sincerely,



Richard B. Davis, PLS

Attach: Copy of Surveyor's License
Exhibit "A": Fee schedule plus breakdown of charges.

EXHIBIT A

COMPANY: RICHARD B. DAVIS CO.

SURVEYOR'S LICENSE NUMBER: LS 3340

VALID THROUGH: June 30, 2016

PROJECT SCHEDULE

If contracted to do so, our company intends to complete all tasks for the amounts listed below no later than February 28, 2016

	Amount
Task 1: Review Existing Data	\$190.00
Task 2: Re-Establish Survey Control Points	\$725.00
Task 3: Perform new Topographical Survey	\$1065.00
Task 4: Creation of Topographical Data and maps	\$1130.00
Task 6: Volumetric Analysis	\$780.00
TOTAL (Tasks 1-6)	\$3,790.00

The above COMPANY shall perform all work and services described within Section III of the "Request for Bids to Provide Topographical Ground Survey and Volumetric Analysis for the Crescent City Landfill," to be compensated on a lump-sum basis for each task described above.

WITNESS our hands and seals this 1st day of JANUARY, 2016.

RICHARD B DAVIS (Printed name)

Richard B Davis (Signature)

By: Richard B Davis Pres. (Title)



BOARD FOR PROFESSIONAL ENGINEERS,
LAND SURVEYORS, AND GEOLOGISTS
2535 CAPITOL OAKS DRIVE, SUITE 300
SACRAMENTO, CA 95833-2844
916 263-2222



LAND SURVEYOR

LICENSE NO.
3340

EXPIRATION
06/30/16

RICHARD BRIAN DAVIS
PO BOX 30
GASQUET CA 95543

signature

RECEIPT NO.



Del Norte Solid Waste Management Authority

1700 State Street, Crescent City, CA 95531

Phone (707) 465-1100 Fax (707) 465-1300

www.recycledelnorte.ca.gov

The Authority's mission is the management of Del Norte County solid waste and recyclable material in an environmentally sound, cost effective, efficient and safe manner while ensuring 100% regulatory compliance with law.

CRESCENT CITY LANDFILL SEMIANNUAL MONITORING REPORT Reporting Period: July 2015– December 2015

Submitted to
Regional Water Quality Control Board, North Coast Region

Prepared by
Tedd Ward, M. S. - Director / for the
Del Norte Solid Waste Management Authority (DNSWMA)
with assistance from
Kayleen Warner - Facilities & Programs Coordinator, DNSWMA
and
Eric Lauchstedt - Engineering Technician, County of Del Norte

I. Introduction

The North Coast Regional Water Quality Control Board (RWQCB) has issued Waste Discharge Requirements Order 97-90 to both the County of Del Norte, the owner of the landfill site, and the Del Norte Solid Waste Management Authority, a joint powers authority of the County of Del Norte the City of Crescent City responsible for administering all solid waste and recycling activities within the Del Norte County. Under Order 97-90, the Del Norte Solid Waste Management Authority is required by 15 July and 15 January of each year to submit a monitoring report summarizing all activities during the past six months pertaining to Monitoring and Reporting Program 97-90. The Del Norte County Transfer Station facility, which opened in March 2005, essentially replaced the services which were provided at the Crescent City Landfill.

As RWQCB staff now receive copies of all water quality monitoring data from the Crescent City landfill, that raw data is not included with this report. In the few instances where compliance was not feasible, this report provides explanation about the situation encountered, and the Authority's strategies to comply with the intent of these orders.

On December 1, 2015 the Authority hired Kayleen Warner as Facilities & Programs Coordinator whose duties include responsibilities with respect to this facility.

A. Site Background

2.2

The Crescent City Landfill is located 2 miles north of Crescent City, in Del Norte County

and is situated on a 166-acre parcel. The parcel including, APN # 110-020-08, APN # 110-020-43, and a portion of APN #110-020-69, are owned by Del Norte County and zoned as a Public Facility. Current land use within 1 mile of the site is recreational, wildlife habitat, agricultural, residential, and industrial. Adjacent zoning designations surrounding the site are as follows: RCA-1 (Resource Conservation area), A-20 (Agricultural – 20-acre minimum), and RRA-1 MH-1 (Rural Residential - 1-acre minimum - Mobile Homes allowed). The landfill property is surrounded on three sides by Tolowa Dunes State Park, land owned by the California Department of Parks and Recreation, and their holdings include approximately 5,000 acres extending from Old Mill Road to the ocean less than two miles to the west. There is a residential area consisting of fourteen property ownerships located approximately one quarter to one half mile north-northeast of the former disposal site.

II. Principle Related Activities of the Authority

During the second half of 2015, the Authority's efforts to comply with WDR No. 97-90 at the Crescent City Landfill have included several interrelated activities:

Del Norte County Transfer Station Operations. Construction of the Transfer Station was completed on 11 March 2005, and this facility has been open to the public since 14 March 2005. Authority staff continue to monitor operational issues at the Transfer Station. In July 2015, Authority staff applied for and received approval of the No Exposure Certification for stormwater monitoring at this facility.

Continuing progress on other solid waste issues for which the Authority is responsible, including administration of the new Countywide garbage collection franchise which began in July 2011, coordinating community cleanups, the annual household hazardous waste collection event, and increasing waste prevention, recycling, and composting.

Administering grants for expansion of Del Norte's recovery infrastructure. The Authority continues to administer CalRecycle grants related to used oil recycling and beverage container recycling along with seeking new grant opportunities.

Post-closure Maintenance of the Crescent City Landfill. Final completion of closure construction was achieved on 02 February 2006. Authority staff generally consult with the County Engineering Department and/or Roads Department to evaluate alternative repair strategies. Each summer Authority staff has worked with CalFire and the Del Norte Fire Safe Council to mow the top deck and around drainage structures to increase predation of burrowing moles, voles, rodents and snakes by raptors, intending to control or prevent the damage caused by such. This summer, Authority staff will again be working with Del Norte County staff to conduct these maintenance activities.

On 14 August 2014, RWQCB staff person Gina Morrison inspected the Crescent City Landfill in the company with Authority Acting Director Tedd Ward and Brian McNalley from the Del Norte County Department of Environmental Health. Apart from the delay in submitting these reports and the incomplete vegetative maintenance on the berms and downdrains on the

sideslopes, no major compliance issues were identified at the time of that inspection.

In a letter dated 25 February 2015, RWQCB staff approved the Notice of Termination for stormwater monitoring at the Crescent City Landfill. Since the completion of landfill closure construction, there is no exposed trash and very few vehicles using this facility, and therefore virtually no potential impact to stormwater runoff. Authority staff continue to monitor surface water at this facility.

Recent heavy rainfall events have caused erosion at several locations. Repair and mitigation work will begin as soon as weather conditions permit.

Engineering Feasibility Study for a Corrective Action Plan. In Spring 2002, RWQCB staff determined that due to several detections of volatile organic compounds such as freon-12 and vinyl chloride, the RWQCB made a finding of that the Crescent City Landfill has "measurably significant" evidence of a release. In a letter of 03 April 2002, the Del Norte Solid Waste Management Authority proposed a schedule of actions for the Authority to return to compliance under Order 97-90. In January 2003, the Authority submitted a Feasibility Study for a Corrective Action Program for the Crescent City Landfill. In subsequent communications the Authority's contractor for this project, Winzler & Kelly Consulting Engineers, summarized communications and commitments in a letter dated 18 March 2003. On 18 July 2005, Regional Water Quality Control Board Water Resource Control Engineer approved of the Interim Corrective Action Work Plan, which essentially called for the drilling of three leachate piezometers / sampling wells within the landfill mound as well as the installation of gas probes around the perimeter of the landfill, and associated monitoring. These three leachate piezometers/leachate sampling wells were installed in August 2005, and water samples were collected from at least one of the leachate wells in February 2006, March 2007, January and August 2008, January and August 2009, August 2010, January and August 2013, and August 2014.

Appeal of the Crescent City Landfill's Threat / Complexity Rating. Since December 2010, the Authority has also engaged in appealing the 'IA' threat/complexity rating for this landfill, which results in an annual WDR fee that amounts to over \$2 per capita per year for this relatively small closed facility that shows relatively little variability in the direction of groundwater flow or the relatively low levels that constituents of concern detected through monitoring. In September 2012, the Authority Director and Program Manager met with The North Coast Regional Water Quality Control Board Executive Director Mathias St. John as well as RWQCB staff persons Luis Rivera, David Leland, and Gina Morrison. In that meeting, Authority staff agreed to develop a plan for how our agency might demonstrate that the Crescent City Landfill is not having an adverse impact on the residential wells next to the landfill property. Towards this end, RWQCB cooperatively agreed to temporarily reduce the Threat/Complexity rating (and thus the WDR fee for 2013) for the Crescent City Landfill to free up resources for the Authority to pursue these issues.

In July 2013, the Groundwater Investigation Work Plan for the Crescent City Landfill, and a related Health and Safety Plan for the drilling, were approved. This plan proposed to drill two additional wells for investigating the elevation, flow direction and gradients for groundwater in both the shallow and deep water-bearing zones, and the location of these wells was selected to demonstrate the direction of groundwater flow nearest the residential

water wells closest to the landfill property. In January 2014, investigation wells E-4 Shallow and E-4 Deep were drilled, developed, purged and sampled for the first time. The shallow and deep groundwater contour maps included with this report include data from these new wells.

In September 2015, the Authority began working with Lawrence & Associates to provide analysis and documentation to support the Authority's continuing appeal of the Threat / Complexity rating and to update the Monitoring and Reporting Programs and Waste Discharge Requirements for this facility. Lawrence & Associate's "**Proposed Updates to Monitoring & Reporting Program for Crescent City Landfill (January 2016)**" is attached.

A. Waste Discharge Monitoring

As the landfill has been closed to the public since March 2005, no more municipal solid waste will be disposed at the Crescent City Landfill. Clean ditch cleanings are being stockpiled by the County Roads Department over the former whey pond. This area was over-excavated for cover material during landfill closure, and these materials are being placed in this area to retain this area as a usable uplands and to provide materials for grading and storm damage repair for the closed landfill. Several piles of 'dirty fines' were established in the latter part of 2013 on the top deck of the landfill for use in future erosion repairs. Apart from deliveries of rocks, soils, 'dirty fines,' and related materials needed to repair and maintain the landfill, these ditch cleanings have been the only materials delivered to the landfill since closure construction was completed in February 2006.

B. Groundwater & Surface water monitoring

RWQCB staff as well as the Local Enforcement Agent of the CIWMB (employed by the Del Norte County Health Department) receive copies of all water quality testing conducted at the landfill. The Authority collects water samples following the testing protocol recommended in the Technical Memorandum of October 1996 by Winzler & Kelly, and approved by RWQCB staff. These samples test for constituents prescribed under Order No. 97-90. The hydrology under the landfill may be characterized as two water bearing zones (henceforth referred to as 'shallow' and 'deep') separated by a semi-permeable marsh deposit of a varying thickness between six inches and three feet. Several monitoring wells are established as pairs, one each for the shallow and deep water-bearing zones, such as well E-3 Shallow and well E-3 Deep. It is worth noting that well W-6W Deep is actually mostly screened within the marsh deposit, with just the lower two feet of the well screened below the marsh deposit. Well SM-6 is screened entirely within the marsh deposit.

Groundwater

The August 2013 sample indicated an extraordinary concentration of 2.6 mg/L toluene in well SM-6. After consultation with Gina Morrison of the NCRWQCB, Authority Director

Ward made arrangements to place a locking cover over this well, and to re-sample this well after additional purging. As this well is screened in the marsh deposit, its recharge rate is extraordinarily slow. After conducting three additional purges of this well, it was re-sampled and the results indicated a toluene concentration of 0.27 mg/L. In December 2013, Authority staff had a locking cap placed over this well to reduce the potential for vandalism that may have been associated with these toluene concentrations. In November 2014 and March 2015, toluene concentration was below the detection limit of .0005 mg/L. In August 2015, the concentration of toluene was found to be 0.091 mg/L.

Attached are several graphs analyzing groundwater samples indicating the greatest impact for water quality data collected since 2000. Where the test did not detect a constituent at a specific well, the detection limits of the testing laboratory are indicated on the graphs. Samples above the tolerance levels indicate a detectable impact to groundwater. For the January 2011 sampling, well SM-7 was damaged and samples were not collected from that well. The well E-3 Deep was also damaged and was not sampled in January 2013. Damaged wells have zeroes on the graphs, and otherwise the minimum detection limit is indicated, though results are 'non-detect.' The analysis relates to each of the enclosed graphs:

1. **Total dissolved solids (TDS):** in the Technical Memorandum the upper tolerance level for shallow wells indicating a release is 760 mg/L. Well E-3 Deep had a TDS level of 734 in August 2015 and in August 2007, a TDS level of 1000 mg/L, though no shallow wells exceeded the upper tolerance interval, and no separate tolerance interval was established for the deep wells. In September 2011, Well E-2 Deep had a TDS level of 1500 mg/L. In January 2012, Authority staff discovered that the dedicated pump installed in Well E-3 Deep had been stolen. Authority staff have improved the locking mechanism on well E-3 Deep and installed a replacement well. Well W-2 Deep has generally shown an increasing TDS concentration of 810 mg/L in November 2014, 850 mg/L in March 2015, and an August 2015 concentration of 755 mg/L, though there has not been an upper tolerance level set for TDS in the deep wells
2. **Chemical oxygen demand (COD):** in the Technical Memorandum the upper tolerance level for shallow wells indicating a release is 241 mg/L. In August 2007, well SM-6, at the southeast corner of the landfill mound had a COD level of 2500 mg/L. This extraordinary result was not consistent with prior data for any well, and the results from the January 2008 sample was an unprecedented 13000. Staff suspect this result was related to the PVC glue which appeared to be the source of the toluene detected at the same well. The resample of February 2008 did not include COD analysis. The August 2010 sample results for COD in well SM-6 was 910 mg/L. In January 2011, duplicate samples were collected from SM-6 and sent to be tested for COD using two different labs just in case this most recent data could reflect a laboratory error. Both laboratories analyzing these samples for COD confirmed that in January 2011 at well SM-6, COD was below the detection limit of 5 mg/L. In September 2011, well SM-6 had a COD concentration of 1300 mg/L, in November 2012 had a COD concentration of 750 mg/L, in January 2013 had a COD concentration of 400 mg/L, and in August 2013 had a COD concentration of 280 mg/L. In January 2014, the COD concentration in SM-6 had dropped to 38 mg/L, but it rose again by August 2014 to 160 mg/L. This well is screened entirely within the marsh deposit, so should not be considered in excess for the tolerance interval set for shallow wells. The August 2015 concentration was 36 mg/L.

- 3. Bicarbonate alkalinity:** In the Technical Memorandum the upper tolerance level for shallow wells indicating a release is 272 mg/L. The shallow well with the highest bicarbonate alkalinity concentration in January 2014 was also Well E-3 Shallow (170 mg/L). For 2015, the shallow well with the highest bicarbonate alkalinity was Well E-3 Shallow with February and August concentrations of 190 and 360 mg/L respectively.

The bicarbonate alkalinity concentrations for wells E-3 Deep, W2 Deep, E2 Deep and E-4 Deep all have all mostly exceeded 300 mg/L since January 2012, but no tolerance interval has been set for the deep wells for this analyte. In the August 2013 sampling, this level was exceeded in Deep wells E3-Deep, E-2 Deep, well SM-6 which is screened within the marsh deposit (360 mg/L), and Well 3S- Shallow at 320 mg/L. In 2014, no shallow wells had bicarbonate alkalinity concentrations above 272 mg/L except the new well E-4 Shallow which had bicarbonate alkalinity concentrations in February and August 2014 of 470 and 360 mg/L respectively. Well E-4 Deep had bicarbonate alkalinity concentrations of 570 and 550 mg/L respectively during these same periods. 2015 concentrations for wells E-3 Deep, W2 Deep, E2 Deep and E-4 deep continue to exceed the upper tolerance for shallow wells.

- 4. Arsenic:** The maximum contaminant level for drinking water in California is .05 mg/L Arsenic. In March 2010, well W-2 Deep had this concentration of 0.05 mg/L arsenic, and in January 2011, the arsenic concentration at W-2 Deep was 0.49 mg/L. Since that time, the highest concentration of arsenic sampled was in well W-2 Deep, at 0.039 mg/L in September 2012, though in February 2015, arsenic was found at a concentration of 0.038 mg/L in this same well. No wells exceeded the maximum contaminant level since 2009.
- 5. Nickel:** The maximum contaminant level for drinking water in California is 0.1 mg/L nickel. In 2009, Well 3S Shallow had unusually high measurements of nickel, peaking at 0.17 mg/l nickel in August 2009, but nickel concentrations at this location have returned to historical levels since January 2010. Since 2011, all wells sampled had nickel concentrations below 0.04 mg/L with the exception of Well 3S Shallow which measured 0.092 mg/L in August 2015.
- 6. Vinyl chloride:** For many years the detection limit for this constituent (1.0 ppb) exceeded the California maximum contaminant level (M.C.L.) for drinking water of 0.5 parts per billion (ppb), but for technical reasons 1.0 ppb had been the lowest limit North Coast Laboratories (NCL) could detect until January 2011, when NCL lowered their detection limit to 0.5 ppb. For the August 2007 sampling, the reporting limit was raised to 4.0 ppb for well SM-6 due to a loss of instrument response. As the August 2009 sample included Constituent of Concern monitoring, samples were sent to another lab for analysis of volatile organics, and for many of these analytes, the detection limits were lowered. Since January 2011, vinyl chloride has been detected only in well Well E-1 Deep, with a concentration of 0.9 ppb in January 2011, 0.75 ppb in January 2012, 0.73 ppb in January 2013, and 0.74 ppb in August 2013. Since 2014, no well samples have detected vinyl chloride and this trend continued in 2015.
- 7. Dichlorodifluoromethane (Freon 12).** The upper tolerance level for shallow wells had been identical with the detection limits for this constituent (1.0 ppb) until NCL

was able to lower their detection limit to 0.5 ppb in January 2012. Due to 'a loss of instrument response', North Coast Labs adjusted the detection limits upwards to 2.0 ppb for the three sampling events between September 2005 and August 2006. The August 2007 samples were all non-detect for this constituent, though the detection limits were again raised to 4 ppb for wells E-3 Deep, W2-Deep and SM-7 Shallow again 'due to a lack of instrument response.' As the August 2009 sample included Constituent of Concern monitoring on some wells, those samples were sent to another lab for analysis of volatile organics, and for many of these analytes, the detection limits were lowered. Since January 2008, all groundwater well samples have been non-detect for this constituent. The sampling events when well SM-7 and E-3 Deep were damaged are indicated as 'zeros' but these points do not reflect data from analyzed water samples.

Surface water

Authority staff collect samples from 3 surface locations four times per year. The attached graphs reflect recent data, and indicate detections above the tolerance intervals from Winzler & Kelly's Technical memorandum. Samples above these tolerance levels indicate the landfill's detectable influence on surrounding surface waters.

Surface water monitoring point S-1 is sampled from the North Pond, with samples collected from the narrow channel of water connecting the two lobes of the North Pond.

Starting with the August 2006 sampling, the location of S-2 has been moved from the overflow pond adjacent to the landfill to a point S-2B slightly downstream just south of groundwater Well 2. This change of sampling location becomes necessary when vegetation has grown over location S-2, and no surface water is accessible for sampling. Location S-2B is the nearest practically accessible location to S-2 for sampling surface water, and this location has accessible surface water year more frequently than the original S-2 location. Despite this change in location, in August and November 2007, there was not adequate surface water available for sampling at location S-2B, as was confirmed by Gina Morrison of RWQCB staff during her inspection of the Crescent City Landfill at that time. Authority staff collected a sample from S-2B as soon as adequate water was available for sampling, on 03 December 2007. During the period when S-2 could not be sampled, the data are graphed as 'zeros' but this does not reflect laboratory analysis of collected samples. A small beaver dam has raised the level of water at the original location of S-2, and staff return to this location for the collection of surface water samples when possible. The S-3 sampling location is surface water flowing from the wetlands down gradient from the landfill north towards Lake Earl, sampled on the south side of Old Mill Road in front of the culvert conveying water flows under that road.

The tolerance level for sodium in surface water is 15.4 mg/L. Since 2011, this sodium concentration has generally been exceeded in the summer and fall for both S-1 and S-2. S-1 exceeded this concentration in August 2013, November 2013, January 2014, and August 2014 with results of 21 mg/L, 23.9, 22, and 17 mg/L respectively. S-2 last exceeded this level in August 2013 and August 2014 with concentrations of 26 and 16 mg/L sodium respectively. At these surface water sampling locations, sodium concentrations appear to have a generally diminishing trend, and during 2015, none of the wells exceeded the tolerance level.

The tolerance interval for calcium in surface water is 21 mg/L Calcium. In August 2013 and August 2014, S-3 exceeded the tolerance interval for calcium, sampled to be at concentrations of 23 mg/L and 26 mg/L calcium respectively. Since 2006, this calcium concentration has been exceeded mostly at location S-2. This concentration was exceeded at S-2 in January 2014 (24 mg/L), March 2014 (23 mg/L), August 2014 (41 mg/L), January 2015 (30 mg/L), August 2015 (48 mg/L) and November 2015 (25 mg/L).

None of the above referenced surface water samples indicated any constituent of concern above the maximum contaminant level for drinking water.

Constituent of Concern Monitoring 2014

In March 2014, Authority staff proposed the wells to be included in the Constituents of Concern monitoring for concurrence by RWQCB staff. Staff continued to work with North Coast Laboratories to refine the testing protocols and identify which tests would need to be subcontracted to another lab. During the summer and fall of 2014, the Authority conducted the more comprehensive suite of sampling known as the Constituent of Concern monitoring for the following wells and sampling locations:

- E-1 Shallow Surface Water S-1
- E-1 Deep Surface Water S-2
- E-2 Deep Surface Water S-3
- E-3 Shallow
- E-3 Deep Leachate Well L-3
- E-4 Shallow
- E-4 Deep
- Well 2 Deep
- Well 3S Shallow
- Well 6-E Shallow
- SM-6 Shallow
- SM-7 Shallow

During this period, the following wells were sampled for the groundwater constituents specified in RWQCB Order 97-90, but not the more comprehensive Constituents of Concern: W-1E Deep, W-1W Shallow, W-6W Deep, W-8 Shallow, W-9 Shallow, W-9 Deep, and W-10 Shallow.

In summary, this relatively expansive and expensive suite of tests resulted in relatively few additional detections. Detections from the Constituent of Concern Monitoring are summarized in the table below:

Well	4,4'-DDE ug/L	MTBE ug/L	Tert-Butyl Alcohol ug/L	Acetone ug/L	Bis-(2 Ethylhexyl) Phthalate ug/L
E -1 Deep	ND	1	ND	ND	ND
E -1 Shallow	ND	1	23	3.9	ND
SM-6 Shallow	ND	ND	ND	4.8	3.7
E - 3 Deep	0.0014	0.74	13	ND	ND
E - 3 Shallow	ND	ND	ND	ND	ND
E-4 Deep	ND	ND	6.9	ND	ND
W-3S Shallow	0.002	ND	ND	ND	ND
W-6E Shallow	0.0016	ND	ND	ND	ND

ND = sample was 'non-detect,' or below the detection limits for that constituent.

New Wells: Wells E-4 Shallow and E-4 Deep

Groundwater samples have been collected twice from these new wells. Though this data was not included on the enclosed graphs, it is included in the associated data tables for comparative analysis. The E-4 shallow well exceeded the tolerance interval for bicarbonate alkalinity, as discussed earlier in this report.

Groundwater contours indicate that it may be possible that the shallow and deep groundwater bearing zones are flowing in slightly different directions. Staff intend to continue monitoring groundwater levels using these wells to better assess groundwater flow directions in coming years.

Storm water

As noted earlier, the Notice of Termination for stormwater monitoring at the Crescent City Landfill was approved in a letter from RWQCB staff in February 2015.

If you have any questions or comments on this report or require further information regarding our water quality monitoring, please feel free to call me at 707-465-1100.

Sincerely,



Tedd Ward, M.S.
Director

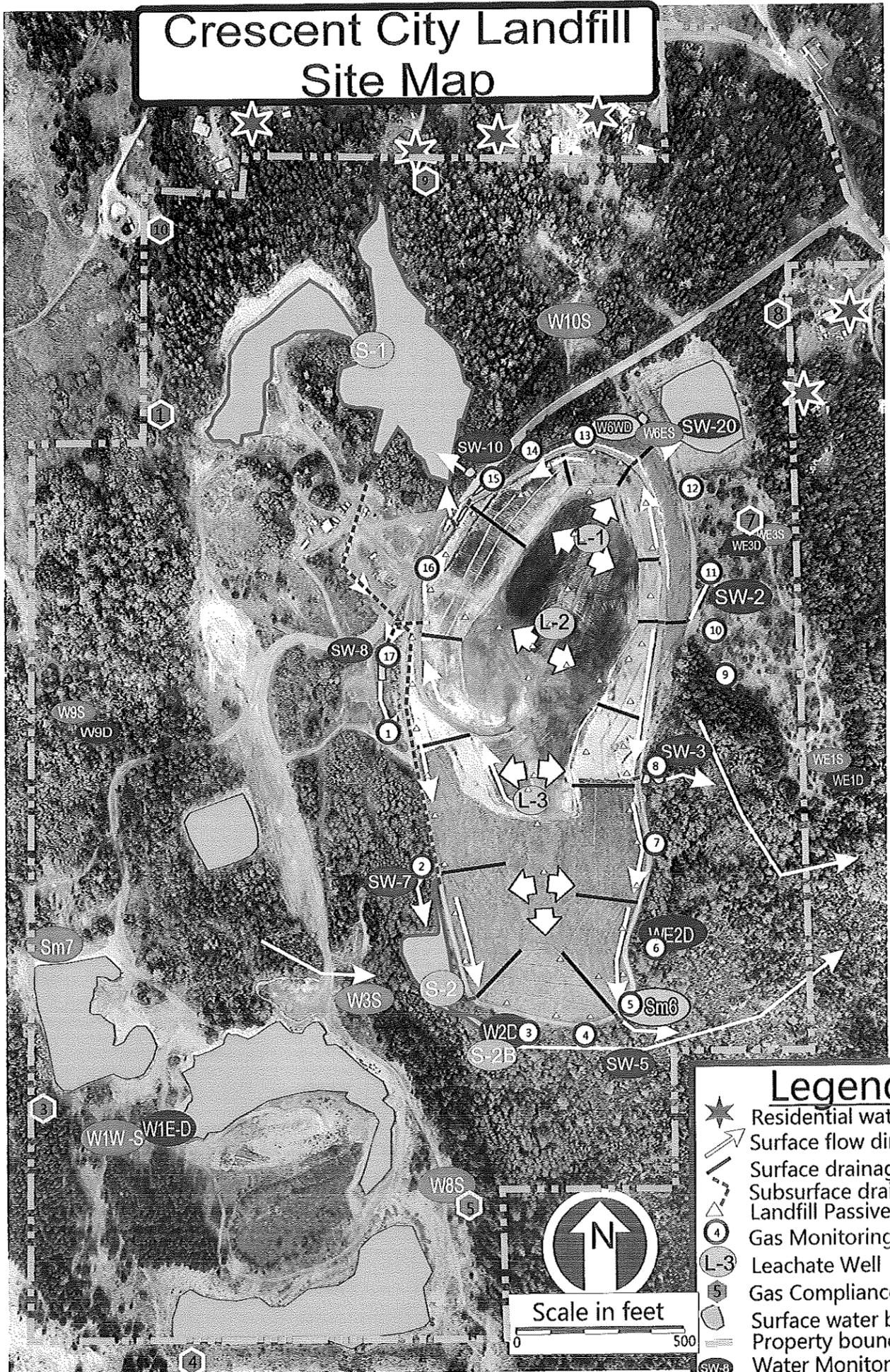
ENCLOSED MONITORING REPORTS AND SUMMARIES:

1. Crescent City Landfill Site Map, including all sampling locations
2. Tables and Graphs summarizing groundwater quality monitoring data collected at the Crescent City Landfill
 - a. Total Dissolved Solids (TDS)
 - b. Chemical Oxygen Demand (COD)
 - c. Bicarbonate Alkalinity
 - d. Arsenic
 - e. Nickel
 - f. Vinyl Chloride
 - g. Dichlorodifluoromethane
 - h. Surface water: Calcium
 - i. Surface water: Sodium
3. Crescent City Landfill August 2015 Shallow Well Groundwater Contours
4. Crescent City Landfill August 2015 Deep Well Groundwater Contours

5. Crescent City Landfill Water Level Data: August 2015
6. Crescent City Landfill Sample Data: July – December 2015
7. Data collected during ground and surface water sampling, November 2015
8. Lawrence & Associate's **"Proposed Updates to Monitoring & Reporting Program for Crescent City Landfill (January 2016)"**

cc: Houawa Moua, Del Norte County Department of Environmental Health
Bonnie Lampley, Lawrence & Associates

Crescent City Landfill Site Map

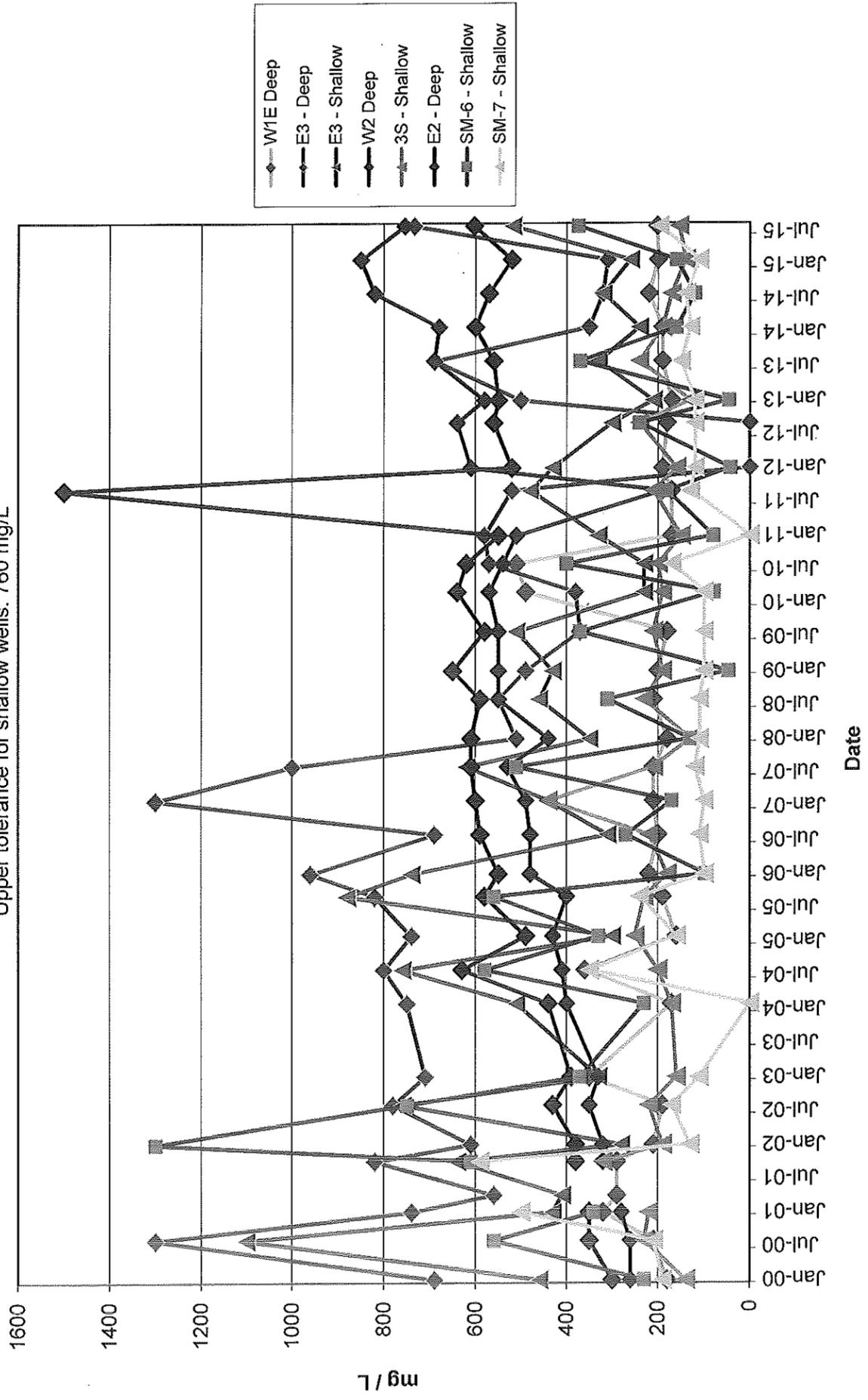


Legend

- Residential water well
- Surface flow direction
- Surface drainage structure
- Subsurface drain structure
- Landfill Passive Gas Vent
- Gas Monitoring Point
- Leachate Well
- Gas Compliance Well
- Surface water body
- Property boundary
- Water Monitoring Point

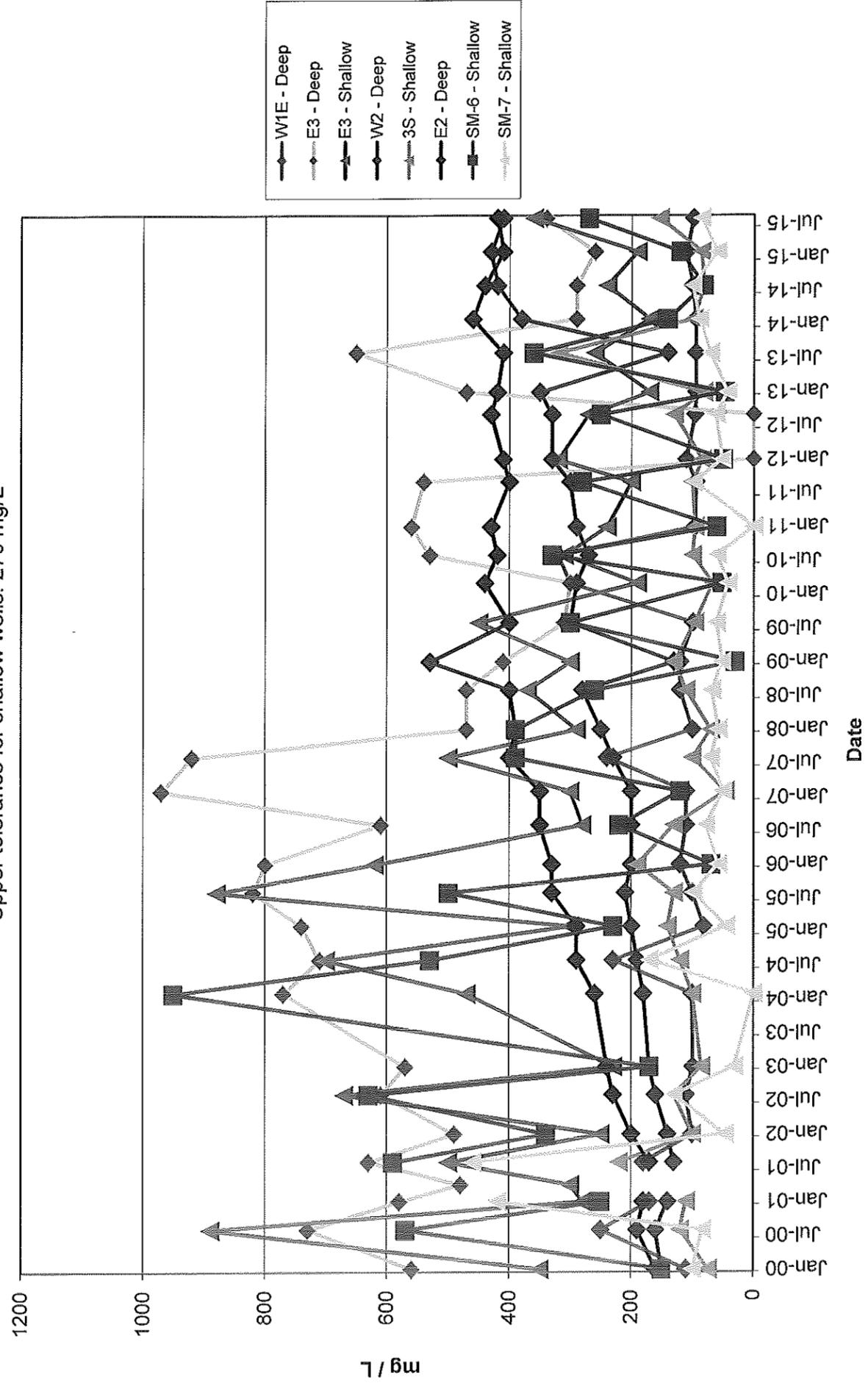
Total Dissolved Solids

Crescent City Landfill
Upper tolerance for shallow wells: 760 mg/L



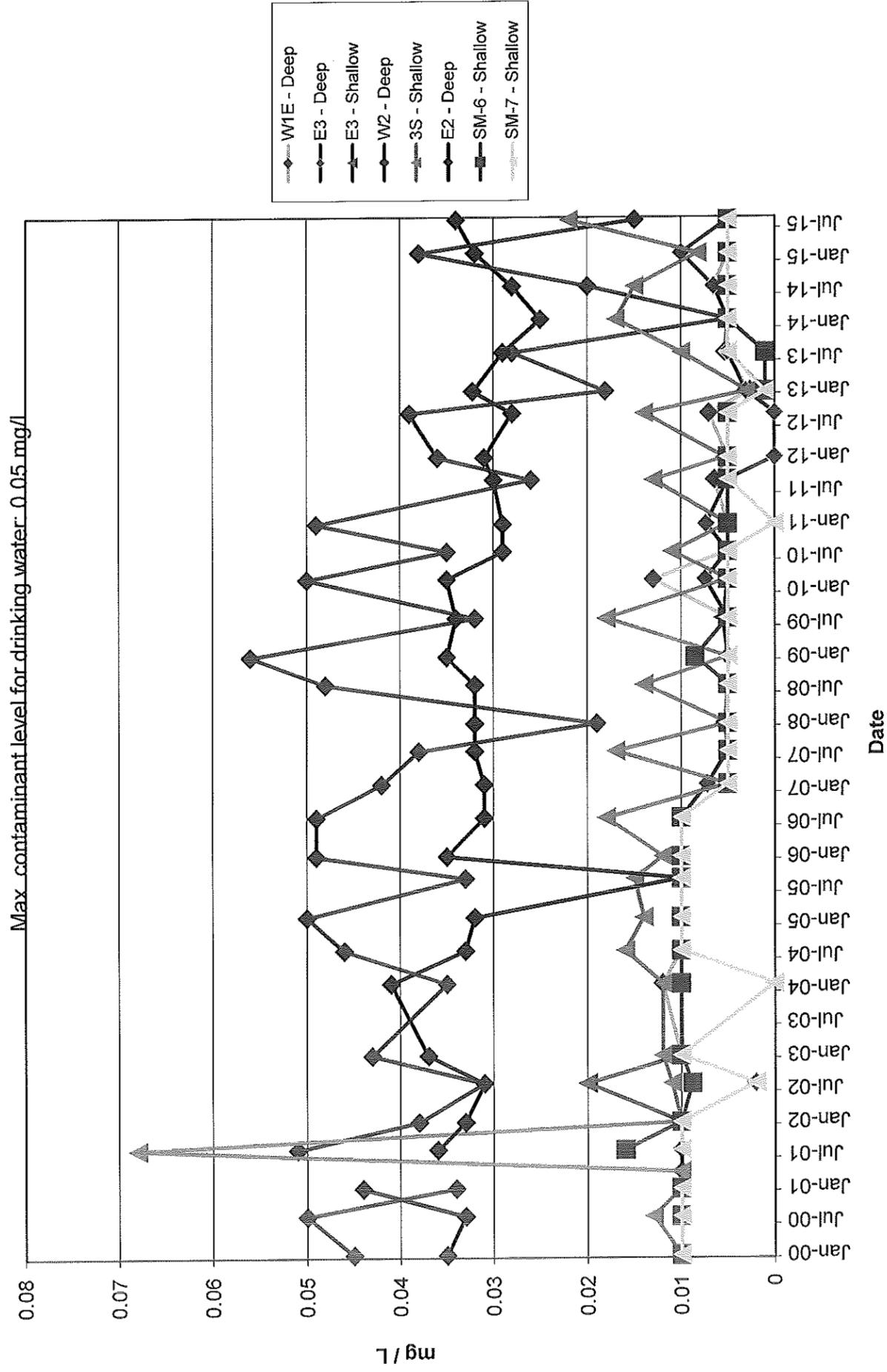
Bicarbonate Alkalinity

Crescent City Landfill
Upper tolerance for shallow wells: 270 mg/L



Arsenic

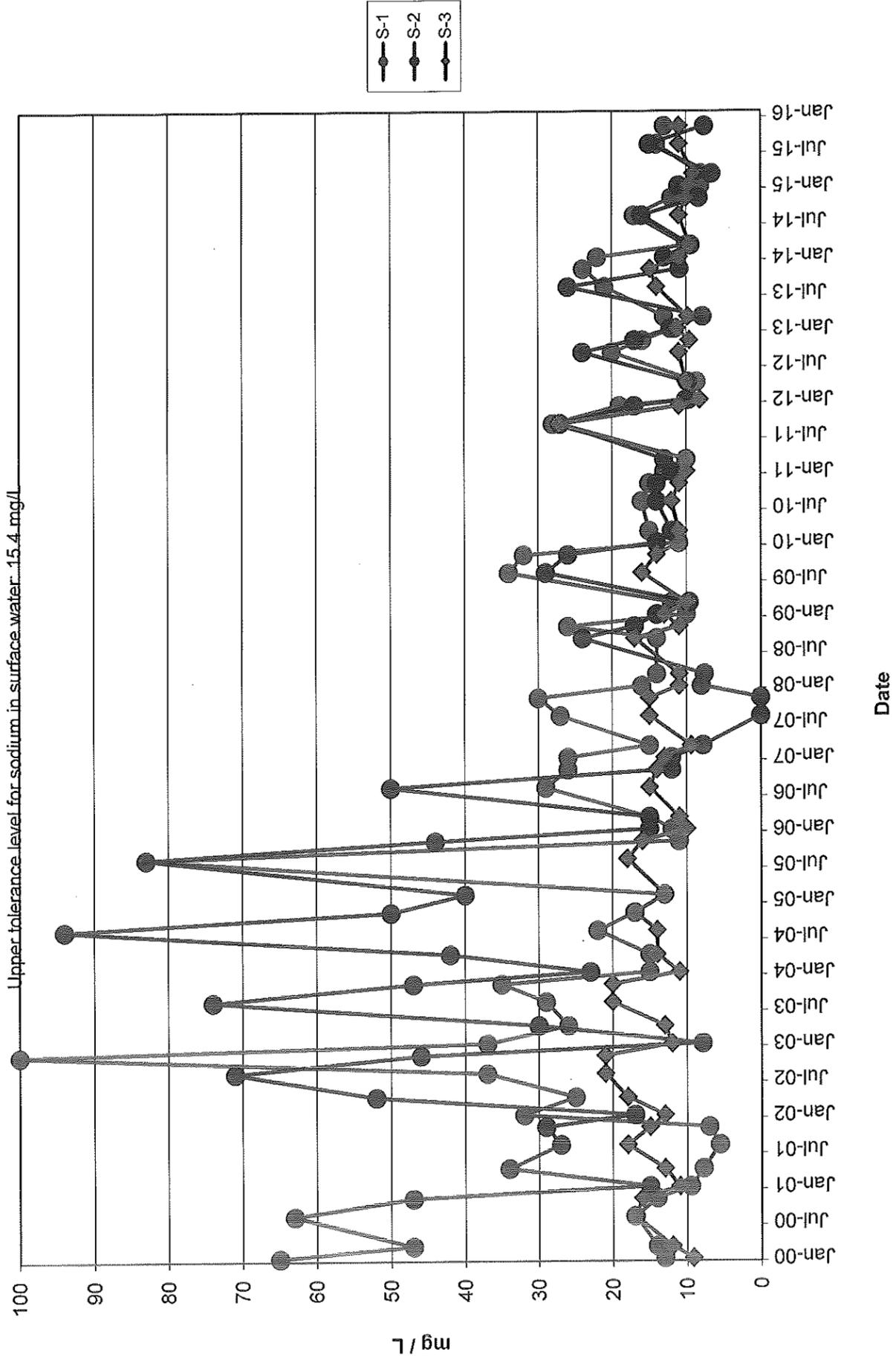
Crescent City Landfill



Surface Water Sodium

Crescent City Landfill

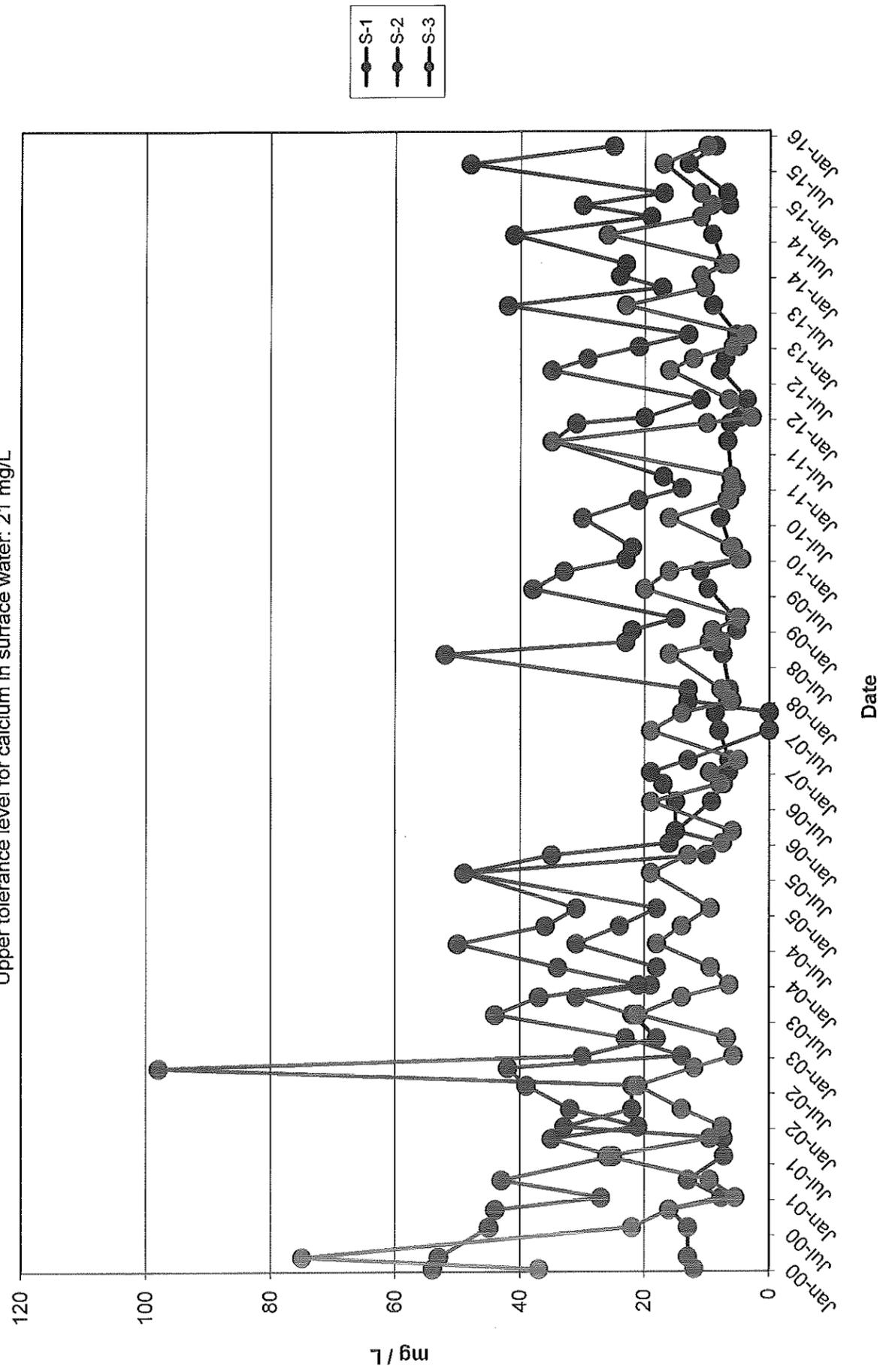
Upper tolerance level for sodium in surface water: 15.4 mg/L

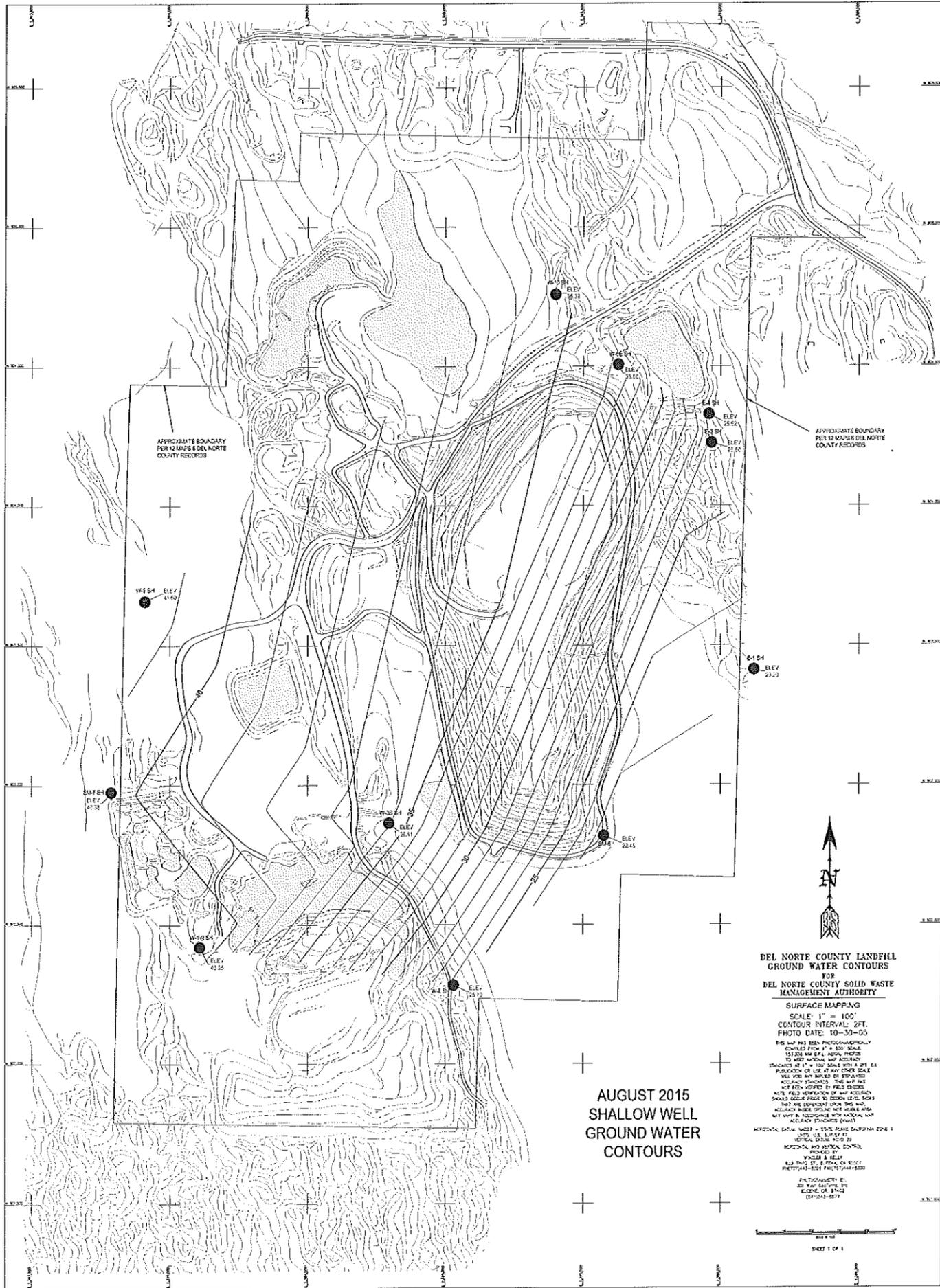


Surface Water Calcium

Crescent City Landfill

Upper tolerance level for calcium in surface water: 21 mg/L

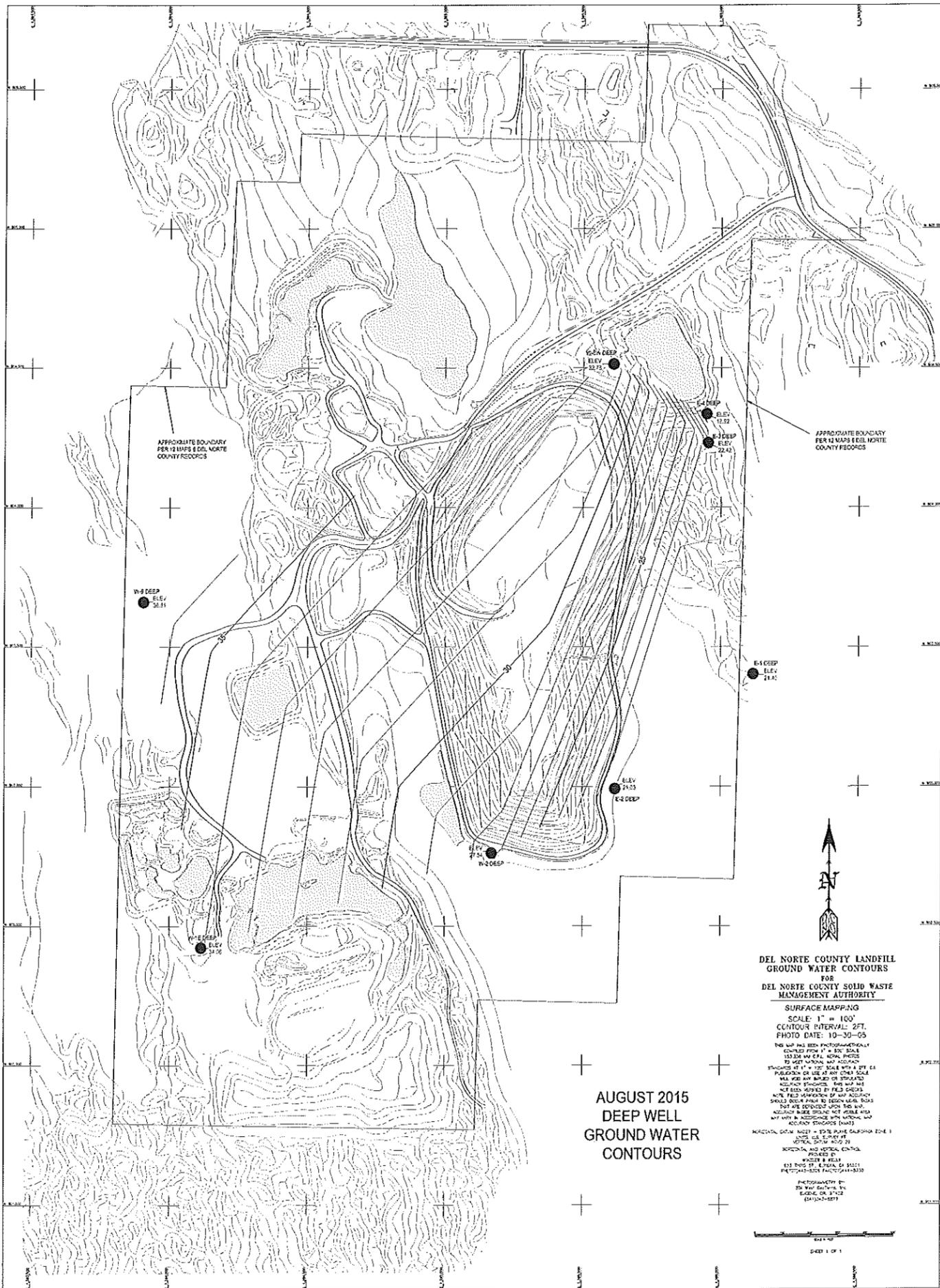




**AUGUST 2015
SHALLOW WELL
GROUND WATER
CONTOURS**


**DEL NORTE COUNTY LANDFILL
GROUND WATER CONTOURS**
 FOR
**DEL NORTE COUNTY SOLID WASTE
MANAGEMENT AUTHORITY**
SURFACE MAPPING
 SCALE: 1" = 100'
 CONTOUR INTERVAL: 2 FT.
 PHOTO DATE: 10-30-05
THIS MAP HAS BEEN PHOTOGRAMMETRICALLY
CORRECTED FROM A 1" = 800' SCALE.
131,200 SQ. FT. OF AERIAL PHOTOS
WAS USED IN THE PHOTOGRAMMETRIC
CORRECTION. THE MAP HAS
NOT BEEN ADJUSTED BY FIELD CHECKS.
WITH FIELD VERIFICATION OF MAP ACCURACY
SHOULD OCCUR PRIOR TO DESIGN LEVEL SIGNS.
THIS MAP IS NOT TO BE USED FOR
DESIGN PURPOSES. NOT TO BE USED FOR
ANY OTHER PURPOSES WITHOUT THE
APPROPRIATE ENGINEER'S (P.E.)
SIGNATURE AND SEAL.
PROVIDED BY:
WYLER & KELLY
1133 P.O. BOX 87, BENTON, OK 73412
PHOTOGRAMMETRY BY:
3D SURVEYING, INC.
1001 W. 10TH ST., OKLAHOMA CITY, OK 73101-1001

 SHEET 1 OF 1



**AUGUST 2015
DEEP WELL
GROUND WATER
CONTOURS**

**DEL NORTE COUNTY LANDFILL
GROUND WATER CONTOURS
FOR
DEL NORTE COUNTY SOLID WASTE
MANAGEMENT AUTHORITY**

SURFACE MAPPING
SCALE: 1" = 100'
CONTOUR INTERVAL: 2FT.
PHOTO DATE: 10-30-05

THIS MAP HAS BEEN PHOTOGRAMMETRICALLY
CORRECTED FROM A 1" = 500' SCALE
1:50,000 MAP. HORIZONTAL AND VERTICAL
ACCURACY IS AS SHOWN ON THE ORIGINAL
STANDARD AT 1" = 100' SCALE WITH A 95% CHANCE
OF ACCURACY. THIS MAP HAS BEEN
CORRECTED TO THE 1" = 100' SCALE.
ALL POINTS SHOWN ON THIS MAP
WILL BE USED FOR THE PURPOSES OF
SURFACE MAPPING. THIS MAP HAS
NOT BEEN VERIFIED BY FIELD CHECKS.
NOTE: FIELD VERIFICATION OF MAP ACCURACY
SHOULD BE OBTAINED FROM THE USER.
NECESSARY SURVEYING NOT SHOWN AND
NOT WITH A NECESSARY NEARLY AND
ACCURACY STANDARDS (NAD83)

HORIZONTAL DATUM: NAD83 - 8256 PLANE GADSDEN EARTH
VERTICAL DATUM: NAVD83
NORTHING AND WESTING COORDINATE
PROCESSED BY
WATER & WASTE
215 FORD ST., EUREKA, CA 95501
PHOTOGRAMMETRY BY
THE WASTE SOLUTIONS, INC.
EUREKA, CA 95502
(707)247-8877



DEEP 1 OF 1

L-3 Landfill Leachate Well

Crescent City Landfill
Del Norte Solid Waste Management Authority

COC

Analyte	Date	Unit	Feb-06	Aug-06	Mar-07	22-Jan-08	28-Aug-08	21-Jan-09	26-Aug-09	26-Aug-10	22-Jan-13	20-Aug-13	#####	19-Mar-15
L-3														
pH			6.6	6.8	6.6	6.5	6.7	6.5	6.8	6.4	6.2	6.3	6.48	7.05
CaOD		mg/L	1300	300	350	99	440	260	170	380	180	150	87	Not Tested
Hardness		mg/L CaCO3	450	250	300	180	88	86	220	85	140	54	85	Not Tested
TDS		mg/L	700	2300	1300	730	790	650	860	350	210	160	320	1530
Conductivity		umhos/cm	2300	3600	2200	180	1400	1200	1700	560	444	320	637	2170
Calcium		mg/L	77	43	47	34	19	17	43	20	38.4	13	18	Not Tested
Magnesium		mg/L	63	34	45	24	10	10	27	8.2	18.1	5	9.4	Not Tested
Potassium		mg/L	24	18	<50	14	8.1	7.5	16	4.9	5.6	5.1	11	Not Tested
Sodium		mg/L	380	640	340	140	170	150	240	91	61.7	29	35	Not Tested
Iron		mg/L	3700	800	4700	11000	3900	270	4500	2700	35600	20000	9600	Not Tested
Arsenic		ug/L	<50	NA	<50	<5.0	5.4	<5.0	<5.0	<5.0	<1	<5	<5	Not Tested
Barium		ug/L	<10	NA	<50	19	24	<5.0	6.8	14	13.2	<5	14	Not Tested
Chromium		ug/L	<10	NA	<50	21	<5.0	<5.0	130	<1	52.8	<5	45	Not Tested
Copper		ug/L	<10	NA	<50	<5.0	6.7	<5.0	7.1	<5.0	1.42	<5	<5	Not Tested
Manganese		ug/L	320	450	390	510	220	190	560	7.4	<1	<5	<5	Not Tested
Molybdenum		ug/L	<20	NA	<50	14	35	19	635	330	3.89	<5	11	Not Tested
Nickel		ug/L	24	47	<50	21	11	32	22	29	3.89	<5	11	Not Tested
Vanadium		ug/L	<10	NA	<50	5.1	<5.0	<5.0	8.6	8.6	27.9	<5	16	Not Tested
Zinc		ug/L	40	<20	<100	<10	<10	<10	25	<10	<5	<10	<5	Not Tested
Organochlorine pesticides & PCBs		ug/L												<5
Organophosphorous Pesticides		ug/L												<5
Benzene		ug/L	1	1.7	<1	<1	<1	<1	<0.5	0.65	<0.5	0.63	<0.5	Not Tested
ethylbenzene		ug/L	8.2	4	<1	<1	<1	<1	<0.5	<0.5	<0.5	0.51	<0.5	Not Tested
chlorobenzene		ug/L	3.6	4.4	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	Not Tested
1,4-Dichlorobenzene		ug/L	1.5	2.3	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	Not Tested
m,p-Xylene		ug/L	1.4	1.6	<0.5	<0.5	0.52	<0.50	<0.5	1	<0.5	1.9	<0.5	Not Tested
o-Xylene		ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	Not Tested
phenol		ug/L	NA	NA	NA	NA	NA	NA	15	NA	NA	NA	<0.5	Not Tested
Vinyl Chloride		ug/L	1.3	1.3	1.7	<1	<1	<1	0.72	<1	<0.5	<0.5	<0.5	Not Tested
tert-butyl alcohol		ug/L	27	NA	NA	NA	NA	NA	40	NA	NA	NA	14	Not Tested
toluene		ug/L	<1.0	<1.0	<1.0	1.7	<1.0	<1.0	1.9	NA	<0.5	4.4	<0.5	Not Tested
Dieldrin		ug/L	0.13	<0.1	NA	NA	NA	NA	<0.5	NA	NA	NA	<0.002	Not Tested
1,2,4-Trimethylbenzene		ug/L	2.9	NA	NA	NA	NA	NA	<0.5	NA	NA	NA	<0.5	Not Tested
Acetone		ug/L	72	15	NA	NA	NA	NA	21	NA	NA	NA	22	Not Tested
BOD		mg/L	NA	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	Not Tested
TPH as Gasoline		ug/L	NA	91	NA	NA	NA	NA	150	NA	NA	NA	NA	Not Tested
TPH as Diesel		ug/L	NA	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	Not Tested
carbon disulfide		ug/L	<5	<5	NA	NA	NA	NA	1.1	NA	NA	NA	NA	Not Tested
MTBE		ug/L	<1	1.2	NA	NA	NA	NA	1.7	NA	NA	NA	0.82	Not Tested
Alkalinity		mg/L CaCO3	660	1300	860	440	590	480	600	220	210	140	190	Not Tested
Bicarbonate		mg/L CaCO3	660	1300	860	440	590	480	590	220	210	130	190	Not Tested
Fluoride		mg/L	<0.5	<0.5	0.13	<0.1	<0.1	0.11	0.2	<0.1	<0.1	0.57	<0.1	Not Tested
Sulphate		mg/L	170	350	85	10	29	36	20	14	<0.5	3.4	1.1	Not Tested
Chloride		mg/L	NA	NA	NA	NA	NA	NA	150	NA	NA	NA	NA	Not Tested
Ammonia Nitrogen		mg/L	<0.1	NA	NA	NA	NA	NA	18	NA	NA	NA	NA	Not Tested
Nitrate Nitrogen		mg/L	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	0.42	<0.1	<0.1	<0.1	Not Tested
sulfide		mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	Not Tested

	Well Depth feet	NEW Measured Well Depth	TOC, MSL Elevation feet	Casing Diameter inches	Date	Time	Initials of sampler	Measured Depth feet	Groundwater Elevation feet>MSL
E -1 Deep	60	56.25	50.63	4	17-Aug-15	8:56 AM	EL	29.23	21.40
E -1 Shallow	30	33.08	52.76	4	17-Aug-15	8:53 AM	EL	29.56	23.20
E - 3 Deep	70	58.6	56.54	4	17-Aug-15	9:13 AM	EL	34.12	22.42
E - 3 Shallow	38	36.55	57.65	4	17-Aug-15	9:09 AM	EL	31.85	25.80
E-4 Shallow	39.4	39.4	58.34	4	17-Aug-15	9:05 AM	EL	32.72	25.62
E - 4 Deep	69.97	69.97	57.94	4	17-Aug-15	9:01 AM	EL	39.02	18.92
W-6W Deep	44.5	45.45	47.03	4	17-Aug-15	8:40 AM	EL	14.25	32.78
W-6E Shallow	36	37	47.06	4	17-Aug-15	8:43 AM	EL	13.20	33.86
W-10 Shallow	14	14	45.42	4	17-Aug-15	8:32 AM	EL	10.03	35.39
E - 2 Deep	45	45.3	26.86	4	17-Aug-15	10:19 AM	EL	5.83	21.03
SM-6 Shallow	10	13	28.57	4	17-Aug-15	10:12 AM	EL	6.09	22.48
W-2 Deep	26	25.35	32.61	4	17-Aug-15	10:04 AM	EL	5.07	27.54
L-1 North			102.37	6					102.37
L-2			101.97	6					101.97
L-3 Middle		60.91	98.06	6	17-Aug-15	10:29 AM	EL	60.63	37.43
SM-7 Shallow	17	18.54	50.38	4	17-Aug-15	9:54 AM	EL	10.00	40.38
W-1E Deep	48.5	49.65	52.71	4	17-Aug-15	9:44 AM	EL	18.65	34.06
W-1W Shallow	17.5	19.21	52.50	4	17-Aug-15	9:48 AM	EL	11.55	40.95
W-8 Shallow	40	39.18	53.58	4	17-Aug-15	9:29 AM	EL	27.88	25.70
W-3S Shallow	20	21	43.76	4	17-Aug-15	9:23 AM	EL	7.65	36.11
North Well					17-Aug-15		EL		0
SM-12 (S-1) Surface	7		44.88	4	17-Aug-15		EL		44.88
W-9 Deep	70	68.95	61.07	4	17-Aug-15		EL	24.26	36.81
W-9 Shallow	20	20.52	53.13	4	17-Aug-15		EL	11.53	41.60

Description for Final map	Date	Time	Initials of sample	Specific Conductance (uS)	Temp F	pH	Salinity tds mg/L	Flow gpm	Comments / Flow
S-1	2-Nov-15	3:20 PM	TW	326	59	7.96	144	226	N/A
S-2B	2-Nov-15	4:10 PM	TW	272	59.3	7.64	132	193	N/A
S-3	2-Nov-15	4:45 PM	TW	238	55.5	7.95	107	162	N/A
									Two lobes of pond have separated. Tire and barrel in pond need to be removed.



Del Norte Solid Waste Management Authority

1700 State Street, Crescent City, CA 95531

Phone (707) 465-1100 Fax (707) 465-1300

www.recycledelnorte.ca.gov

The Authority's mission is the management of Del Norte County solid waste and recyclable material in an environmentally sound, cost effective, efficient and safe manner while ensuring 100% regulatory compliance with law.

20 January 2016

DRAFT

First name, Last name
XXXX Old Mill Road
Crescent City, CA 95531

SUBJECT: Residential well sampling

Dear Mx. Last Name:

As you may know, the Crescent City Landfill property near your home is managed by the Del Norte Solid Waste Management Authority. Our agency regularly collects and analyzes ground and surface water samples from the landfill property, but generally does not sample or analyze samples from residential properties. Our agency is planning to sample residential wells in the coming weeks as part of a continuing appeal of the Waste Discharge Requirement (WDR) Fees imposed by the North Coast Regional Water Quality Control Board. We expect to use the results of these residential well samples to support a reduction in the WDR fees for the landfill.

This letter is to inform you of our intent to conduct water testing of residential wells neighboring the closed Crescent City Landfill, and to request permission sample your well for this purpose. If you grant us permission for this sampling, and your well is selected, our agency will pay for all testing costs, arrange for the testing, and provide you information on the results of our analysis. We hope you will allow us to test your well and appreciate your completing the attached form returning it in the self-addressed envelope by the 5th of February indicating your preferences. Also please indicate if you would like us to send you a summary of these results, even if your well is not tested.

Thank you for your time and consideration. If you would like to discuss these issues further, feel free to call me at (707) 465-1100.

Sincerely,

Tedd Ward, Director
Del Norte Solid Waste Management Authority

2.3

Please complete and return this form using the self-addressed stamped envelope by February 5th, 2016.

Consent Form for Residential Well Sampling

You are invited to participate in our residential well sampling as your residence was selected because of the proximity to the closed Crescent City Landfill.

If you decide to participate, you will be helping the residents of Del Norte County to potentially reduce the fees paid to the Water Quality Control Board. All tests will be conducted at our expense and the results will be shared with you.

Your participation is voluntary. If you have any questions about the testing, please feel free to contact Kayleen Warner at 465-1100.

Your signature indicates that you have read and understand the information provided above, that you willingly agree to participate, that you may withdraw your consent anytime, that you will receive a copy of this form and all sampling results.

- Yes, I will allow Del Norte Solid Waste Management Authority to sample my well
- When results from this residential sampling are available, please send us a summary of those results.
- No, I decline to participate

Address: _____

Printed Name: _____

Signature: _____

Date: _____

RELEASE AGREEMENT

In consideration of the testing services offered above, I, the undersigned property owner, do hereby agree to hold harmless and release the Del Norte Solid Waste Management Authority and its member agencies, their public officials, elected and appointed, employees, contractors, and agents, from any and all claims for damages to property or persons, known or unknown, based upon or arising from the presence or level of one or more elements, constituents, or compounds tested as part of this service.

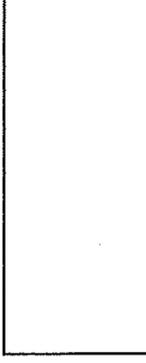
Date: _____ Signature: _____

Signature: _____

Vendor Lawrence & Associates
3590 Iron Court

Claim ID: 7512
Page 1 of 1

AUDITOR COPY



Shasta Lake CA 96019

Vendor ID:

10560

PBSP Expense

Change of Address

Special
Warrant
Routing

Fund	Dept	Line	Proj	Amount	Description
422	421	20231		\$5,022.50	INV 23175 Project # 015063.00

Total Claim: \$5,022.50

I HEREBY CERTIFY THE ARTICLES OR SERVICES DESCRIBED ON THE ATTACHED INVOICES WERE NECESSARY FOR USE BY THE DEPARTMENT AND HAVE BEEN RECEIVED, AND THAT NO PRIOR CLAIM FOR SAME HAS BEEN

X

Signature of Department Head/Authorized Deputy

1/6/2016

Claim Date

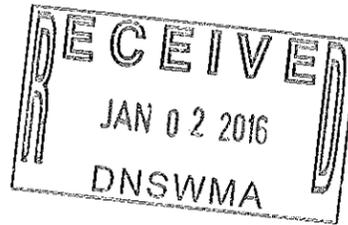
2.4



LAWRENCE & ASSOCIATES

3590 Iron Court
Shasta Lake, CA 96019
530.275.4800 www.lwrnc.com

Project Manager: Bonnie Lampley
December 23, 2015
Project No: 015063.00
Invoice No: 23175



Del Norte Solid Waste Management Authority
Mr. Tedd Ward
1700 State Street
Crescent City, CA 95531

Project 015063.00 ENVIRONMENTAL SERVICES CRESCENT CITY LF

Work Performed from November 1, 2015 to November 30, 2015

Task 001 APPEAL OF WDR'S FEES & THREAT/COMPLEXITY

Professional Personnel

	Hours	Rate	Amount
Lampley, Bonnie	26.75	125.00	3,343.75
Zaitz, David	16.00	80.00	1,280.00
Totals	42.75		4,623.75
Total Labor			4,623.75

10560/20231

Billing Limits	Current	Prior	To-Date
Total Billings	4,623.75	6,235.00	10,858.75
Limit			20,342.00
Remaining			9,483.25

Total this Task \$4,623.75

Task 002 ANALYSIS FOR CHANGES TO MRP

Professional Personnel

	Hours	Rate	Amount
Brackett, Della	1.00	65.00	65.00
Gartner, Bryan	1.25	150.00	187.50
Totals	2.25		252.50
Total Labor			252.50

Billing Limits	Current	Prior	To-Date
Total Billings	252.50	1,750.45	2,002.95
Limit			3,945.00
Remaining			1,942.05

Total this Task \$252.50

Task 003 GEOTRACKER SUPPORT

Continued On Next Page

Professional Personnel

	Hours	Rate	Amount	
Brackett, Della	2.25	65.00	146.25	
Totals	2.25		146.25	
Total Labor				146.25
Billing Limits	Current	Prior	To-Date	
Total Billings	146.25	0.00	146.25	
Limit			520.00	
Remaining			373.75	
		Total this Task		\$146.25
		Total this Invoice		\$5,022.50

Billing Backup

Tuesday, December 29, 2015

Lawrence & Associates

Invoice 23175 Dated 12/23/2015

4:30:42 PM

Project 015063.00 ENVIRONMENTAL SERVICES CRESCENT CITY LF

Task 001 APPEAL OF WDR'S FEES & THREAT/COMPLEXITY

Professional Personnel

		Hours	Rate	Amount
SG - Lampley, Bonnie	11/5/2015	5.00	125.00	625.00
Analyze and prepare water-quality diagrams				
SG - Lampley, Bonnie	11/6/2015	3.00	125.00	375.00
Analyze and prepare water-quality diagrams; prepare discussion of groundwater quality				
SG - Lampley, Bonnie	11/9/2015	2.00	125.00	250.00
Analyze and prepare water-quality diagrams; prepare discussion of groundwater quality				
SG - Lampley, Bonnie	11/11/2015	8.00	125.00	1,000.00
Analyze and prepare water-quality diagrams; prepare discussion of groundwater quality				
SG - Lampley, Bonnie	11/12/2015	8.00	125.00	1,000.00
Analyze and prepare water-quality diagrams; prepare discussion of groundwater quality				
SG - Lampley, Bonnie	11/17/2015	.75	125.00	93.75
Review gas data; direct clerical re compiling gas data				
C1 - Zaitz, David	11/5/2015	3.00	80.00	240.00
Drafting - cross sections, still diagrams				
C1 - Zaitz, David	11/9/2015	4.00	80.00	320.00
Drafting - cross sections, still diagrams, groundwater maps				
C1 - Zaitz, David	11/10/2015	1.00	80.00	80.00
Drafting - cross sections, still diagrams, groundwater maps				
C1 - Zaitz, David	11/11/2015	4.00	80.00	320.00
Drafting - cross sections, still diagrams, groundwater maps				
C1 - Zaitz, David	11/12/2015	4.00	80.00	320.00
Drafting - cross sections, still diagrams, groundwater maps				
Totals		42.75		4,623.75
Total Labor				4,623.75
Total this Task				\$4,623.75

Task 002 ANALYSIS FOR CHANGES TO MRP

Professional Personnel

		Hours	Rate	Amount
CL - Brackett, Della	11/12/2015	1.00	65.00	65.00

Project	015063.00	ENVIRONMENTAL SERVICES CRESCENT CITY LF	Invoice	23175
Edit Proposed Updates to Monitoring & Reporting Program for Crescent City Landfill.				
PR - Gartner, Bryan	11/12/2015	1.25	150.00	187.50
Review MRP update report				
Totals		2.25		252.50
Total Labor				252.50
			Total this Task	\$252.50

Task	003	GEOTRACKER SUPPORT		
Professional Personnel				
		Hours	Rate	Amount
CL - Brackett, Della	11/18/2015	.25	65.00	16.25
Data Entry for B. Lampley				
CL - Brackett, Della	11/19/2015	2.00	65.00	130.00
Data Entry for B. Lampley				
Totals		2.25		146.25
Total Labor				146.25
			Total this Task	\$146.25
			Total this Project	\$5,022.50
			Total this Report	\$5,022.50



015063.00

**PROPOSED UPDATES
TO
MONITORING & REPORTING PROGRAM
FOR
CRESCENT CITY LANDFILL**

JANUARY 13, 2016

PREPARED FOR:

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
1700 STATE STREET
CRESCENT CITY, CA 95531

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Attachments

- A. Waste Discharge Requirements Order No. 97-90
- B. Statistical Analysis Sheets

INTRODUCTION

This document presents a proposal for updating the Monitoring and Reporting Program (MRP) for the Crescent City Landfill (Landfill), Del Norte County, California (**Figure 1**). Lawrence & Associates (L&A) prepared this report at the request of the Del Norte Solid Waste Management Authority (DNSWMA), a joint powers authority of the County of Del Norte and the only incorporated city, Crescent City. The Authority has administrative responsibility for the Crescent City Landfill, including environmental monitoring, reporting, and compliance, though the landfill and landfill property are owned by the County of Del Norte.

The Landfill, which was closed in March 2005, is monitored under Waste Discharge Requirements (WDR) Order No. 97-90, issued by the North Coast Regional Water Quality Control Board (NCRWQCB) on September 25, 1997.

In anticipation of updating the WDR, the DNSWMA wishes to propose updates to the MRP. To that end, this report summarizes the landfill history and operations, describes the hydrogeology of the site, and interprets the historical water-quality data. Based on these data and interpretations, changes to the MRP are proposed. All analyses herein are based on historical and previously presented data; L&A performed no new field testing.

SITE DESCRIPTION

LOCATION AND PAST OPERATIONS

The Landfill is located two miles north of Crescent City, in Del Norte County, on a 166-acre property (**Figure 2**). The property encompasses parcels APN 110-020-08, APN 1120-020-43, and a portion of APN 110-020-69. The property is owned by Del Norte County and zoned as a Public Facility. Current land uses within one mile of the site are recreational, wildlife habitat, agricultural, residential, and industrial.

The landfill property is surrounded on three sides by land owned by the California Department of Parks and Recreation; their holdings include approximately 5,000 acres extending from Old Mill Road to the ocean less than two miles to the west. There is a residential area consisting of sixteen properties located approximately one quarter to one half mile north-northeast of the Landfill mound (main body of waste). The Landfill mound comprises approximately 23 acres of the 167-acre site.

The following brief discussion of the landfill history and operations during its active life was taken from information provided by DNSWMA staff and previous reports, mainly the *Feasibility Study for Corrective Action Program, Crescent City Landfill, Crescent City, California*, prepared by Winzler & Kelly Consulting Engineers, January 2003.

Initially the location of an open burn dump, the Crescent City Landfill was first permitted in 1977. Until 1995, the landfill was generally operated by the same company that collected trash. Scales were first installed at this facility in 1996; prior to that time assessments of the quantity of wastes placed in the landfill mound were based on incoming volumes reported by the garbage company. Between 1977 and the time when this facility stopped receiving municipal wastes in March 2005, this landfill received the vast majority of wastes generated from Del Norte County.

Those wastes consisted primarily of household and commercial solid waste and construction debris. Other types of wastes accepted at the Landfill included asbestos-containing materials (ACM), dead animals, clean wood waste, household appliances, seafood processing waste, sewage sludge, commercial septage, and cheese whey. **Figure 2** shows the locations of the disposal or processing areas for these items.

Household appliances were transported offsite for recycling, they were not disposed in the Landfill. The burying of dead animals in the dedicated location shown in **Figure 2** ended in 1996; dead animals were disposed in the main Landfill after that until closure. Seafood waste processing ended in 1997. The sewage sludge, septage, and cheese whey ponds were all closed by 1995; they were sampled, dewatered, and backfilled between 1995 and 2003.

In 1996, the approximate southern half of the landfill was capped with a 60-mil coextruded geomembrane. In October 2005, the second phase of closure included capping the remaining area with a linear low-density polyethylene (LLDPE) geomembrane.

Since 1997, Groundwater-monitoring has been conducted using 17 groundwater monitoring wells, one leachate well, and three surface-water points. Two additional wells, E-4 Shallow and E-4 Deep, have been sampled but are not under MRP 97-90, as they were installed in 2014. This report includes analysis and recommendations regarding future sampling of the E-4 wells. Monitoring is conducted by DNSWMA and County staff.

Beginning in at least 1987, evidence of Landfill influence on groundwater and surface-water quality was noted. Impacts consist of periodic detections of organic compounds and elevated mineral constituents. In general, however, water quality has improved since the completion of landfill capping. This is discussed in more detail in the hydrogeology and water-quality sections of this report.

PRELANDFILL TOPOGRAPHY

No data exists of the topography of the bottom of the refuse at the base of the landfill mound, and there are no records of how the ground was prepared to accept waste during the early operations.

As an approximate indication of the original ground surface beneath the waste, L&A used topographic contours from the U.S. Geological Survey topographic map from 1956 to estimate original ground surface. This surface was used in the cross sections (**Figures 3 through 6**).

These contours are a best approximation, and the actual contours likely are different. This is the best interpretation that can be achieved with the available data.

HYDROGEOLOGICAL SETTING

The hydrogeologic setting of the Landfill site has been well described in previous reports, such as the *Feasibility Study for Corrective Action Program* referenced above, plus the *Crescent City Landfill Closure Master Plan, Master Plan Report*, Bruce Dees & Associates and Conservation Solutions, December 1995. In addition to previous reports, we reviewed the boring logs for site wells. **Figure 3** shows a plan view of cross sections developed to illustrate the site's stratigraphy; **Figures 4 through 6** show the sections.

STRATIGRAPHY

The Landfill site is underlain by the following geologic units, from ground surface downwards:

- Dune deposits of well-sorted, poorly consolidated, fine-grained sand. The Dune deposit is of varying thickness, depending on the ground-surface topography. In the higher elevation portions of the site, the Dune deposits can be as much as 40 feet thick (*e.g.*, as in the boring for the E-4 wells). In other areas, the Dune deposits may be less than 10 feet thick (*e.g.*, as in the boring for well W-2). Hydraulic conductivity of the Dune deposits ranges from 1.1×10^{-3} to 5.8×10^{-3} cm/sec.
- Underlying the Dune deposits is a unit characterized as the Marsh deposit. The Marsh deposit consists of interbedded peat and silty to clayey sand. It can be present merely as a zone of organic material or greenish-gray clayey zone, or range up to 10 feet thick. It appears to thicken to the northeast (*e.g.*, as in the boring for the E-4 wells).
- Underlying the Marsh deposit is the Battery Formation, a littoral sand deposit. The Battery Formation ranges in thickness from about five to 30 feet, although, in general, it is thinner overall than the Dune deposits. Hydraulic conductivity of the Battery Formation ranges from 4.1×10^{-4} to 6.1×10^{-5} cm/sec.
- Underlying the Battery Formation is bedrock of the St. George Formation. The St. George Formation consists of highly consolidated siltstone and sandstone, and is considered essentially non-water bearing.

The Dune, Marsh, and Battery deposits range in age from Pleistocene to Holocene (approximately 2.5 million years to present). The St. George Formation is late Miocene in age (approximately 5 – 6 million years).

SURFACE-WATER OCCURRENCE

Because of the relatively high permeability of the Dune deposits, precipitation and surface drainage can rapidly percolate downward into the deposits. Similarly, there can be a relatively

strong connection between groundwater and surface water, especially where groundwater levels are near ground surface.

For example, **Figure 6** shows that, at least in certain times of the year, groundwater levels at the south end of the Landfill (in W-2 and W-3SH) are near, or at, ground surface. During these times, there likely is groundwater flow into and out of surface water at the south end of the landfill.

Historically, groundwater mounds were noted below surface impoundments, such as the whey pond, indicating that percolation from surface-water bodies affected groundwater levels.

GROUNDWATER OCCURRENCE

Groundwater occurs principally in the Dune, Marsh, and Battery deposits; for practical purposes, the St. George Formation is non-water bearing.

Depth to groundwater at the Landfill site generally ranges from near ground surface (less than five feet) to approximately 40 feet below ground surface (bgs). Groundwater occurs in two zones at the site – within the Dune deposits and in the Battery Formation, separated by the Marsh deposit.

At all locations, elevation of the piezometric surface is higher in the Dune deposit relative to that of the Battery Formation. For example, see the cross sections (**Figures 4 through 6**) which shows groundwater elevations on January 28, 2015, for the points measured on that date. In all cases, the groundwater elevation in the Dune deposits is higher than in the Battery Formation. The difference ranges from about one foot (in the W-6E/W pair) to 7.7 feet (in the W-1E/W pair). Thus, the relative elevations of the piezometric surfaces show that there is a net downward gradient from the Dune deposit to the Battery Formation. This is the case even though the Battery Formation aquifer is semiconfined by the Marsh deposit (the piezometric surface in the Battery Formation is at a higher elevation than the top of the Marsh deposit).

Figures 7 and 8 shows groundwater elevation contour maps for January 28, 2015, for the Dune and Battery aquifers, respectively. The direction of the groundwater gradient is similar in both aquifers, ranging from east to southeast at magnitudes ranging from 0.006 to 0.020 feet/foot.

Both aquifers show a steepening of the gradient generally in the middle part of the site, beneath the central part of the Landfill mound. In this area the gradient steepens from approximately 0.006 feet/foot to 0.020 feet/foot, with the direction remaining generally unchanged.

The groundwater gradient in the Battery Formation aquifer shows another distinct steepening and change of direction in the area bounded by the W-6W Deep, E-4 Deep, and E-3 Deep (between the Landfill mound and the nearest residential wells). In this area, the gradient steepens from 0.020 feet/foot to 0.0240 feet/foot, and has a slight change of direction, becoming more easterly.

Although the various wells' screened intervals are not exactly the same, the differences in screened-interval length or elevation is not sufficient to cause such distinct changes in gradient. Possible explanations for the gradient changes are stratigraphic changes and changes in elevation

of the top of the St. George Formation. **Figure 9** shows a contour map of the top of the St. George Formation, based on the limited data available from site boring logs. Based on the boring logs, the lowest elevation (approximately -15 feet MSL) of the top of the St. George Formation is in the northwest part of the site (W-9 Deep). From there, the surface slopes gradually upward to the southeast, with an elevation of approximately 8 feet MSL at W-1E Deep. This gradual rise in elevation of the top of bedrock leads to a gradual thinning of the overlying deposits towards to southeast. As a formation thins, the groundwater gradient must increase to move the same amount of water through the formation. This is based on Darcy's equation which states that flow is proportion to the product of hydraulic conductivity, gradient, and flow area ($Q = K \times i \times A$). By definition, if the area decreases (the formation thins), the gradient must increase to move the same amount of water through the formation. This is especially true for a confined or semi-confined aquifer, which cannot expand its flow area because it is constrained by the confining layer. In addition to the thinning of the aquifer, when there is a reduction in the hydraulic conductivity that leads to an increase in gradient.

To the northeast of the landfill, between W-6W Deep and E-4 Deep, there is a change in the stratigraphic sequence. In W-6W Deep, the Marsh Deposit lies directly on bedrock and the Battery Formation is not present. Additionally in this area, the top of bedrock drops steeply to the northwest, as illustrated by the sharp changes in elevation between E-4 Deep and W-6W Deep, and E-4 Deep and E-3 Deep (**Figure 5**). Over this short distance, the top of bedrock drops in elevation at least 13 feet.

As described above, when the thickness of an aquifer or its hydraulic conductivity changes, there must be a correlative change in the groundwater gradient to move the same amount of water through the aquifer. In the area northeast of the landfill, because the Battery Formation (deep aquifer) essentially thins to nothing, the groundwater moving through the formation passes directly into the Marsh deposits. The Marsh deposits likely have a lower hydraulic conductivity than the Battery Formation because of the higher proportion of clay and fine material. Thus, with both a thinning aquifer and decreasing hydraulic conductivity, an increase in the groundwater gradient is to be expected.

WATER QUALITY

Figures 10 through **12** show graphs of total dissolved solids (TDS) vs. time for wells currently monitored, for the historical record (historical data tables are submitted with the semiannual reports and will not be reproduced herein). **Figure 13** is a site plan showing Stiff patterns of water quality, to illustrate changes in water quality over time and between monitoring points. **Attachment A** contains statistical data sheets for trend analyses for selected points.

As early as 1987, groundwater quality impacts from site operations were noted. The impacts were attributed to different site operations, including the now-closed sludge and whey ponds, and the landfill itself. Closure of the various ponds and capping the landfill, however, has improved groundwater quality in almost all locations.

SOUTHEAST TO SOUTHWEST OF LANDFILL MOUND

Starting with wells on the generally southeast to southwest sides (downgradient and crossgradient) of the Landfill, **Figure 10** shows graphs for the E-1 pair, E-2 Deep, SM-6, W-2 Deep, W-3S, and 8-Shallow. In the E-1 pair, TDS increased in the period 1996 through 2009, but has decreased since 2009. The overall increase between 1996 and the present is statistically significant at the 95% level (**Attachment A** contains the statistical analysis sheets discussed herein). Since closure (2006 to present), TDS in both E-1 wells is decreasing, although the decrease is not statistically significant. Current TDS values in both the shallow and deep aquifers at E-1 are approximately 420 mg/L.

Moving to the southeast and immediately adjacent to the landfill, shallow well SM-6 shows a statistically significant decreasing trend for TDS for the period of record (1995 to present). Current TDS in SM-6 is approximately 200 mg/L. Well E-2 Deep shows no significant trend for its period of record (2007 to present). Current TDS in E-2 Deep is approximately 520 mg/L.

Well SM-6 had detections of relatively high concentrations of toluene between September 2012 and September 2013 (see below); toluene was nondetected in November 2014 and March 2015. The patterns of detections (sudden onset, sudden decrease) has been attributed to vandalism, not Landfill influence. The DNSWMA recently installed a locking cover on this well.

Date	SM-6, Toluene (µg/L)
6-Sep-12	610
24-Jan-13	1.6
20-Aug-13	2600
17-Sep-13	270
25-Feb-14	1.3
24-Nov-14	<0.5
19-Mar-15	<0.5
18-Aug-15	91

At the immediate southwestern corner of the Landfill, well W-2 Deep is the only site well that currently shows an increasing trend since closure. The TDS in W-2 Deep shows a significant increasing trend since at least 1990, with no apparent changes since closure. Current TDS in W-2 deep is approaching 900 mg/L. VOC have only been detected in this well once, however, in August 2009 (hexachloroethane at 110 µg/L). This location is the closest monitoring point to the landfill, and the groundwater level here likely is very close to the bottom of waste (see **Figures 4** and **6**).

The two shallow wells in the area southwest of the Landfill mound, W-3 Shallow and W-8 Shallow, are upgradient and crossgradient of the Landfill mound, respectively, although W-3 Shallow is downgradient of former waste ponds. For the period of record (1988 to present), W-3 Shallow shows a significant decreasing trend and W-8 Shallow shows no significant trend. This is consistent with W-3 Shallow being downgradient of the former ponds: After their closure, it would be expected that downgradient groundwater quality would improve. W-8 Shallow is

crossgradient of former and current Landfill features, so it would be expected that groundwater quality would remain stable at that location. Current TDS in these wells is approximately 150 mg/L. Volatile organic compounds (VOC) have been nondetected in W-3 Shallow for the last five years; VOC have always been nondetected in W-8 Shallow.

NORTHEAST TO NORTH OF LANDFILL MOUND

Figure 11 shows the time-series graphs for wells northeast to north of the Landfill mound. The closest neighboring wells are to the northeast of the Landfill property. Monitoring wells between the Landfill and the neighbors are the E-3 and E-4 pairs. The E-3 pair has been monitored since 1996; the E-4 pair was installed in early 2014, and thus has only a small data set.

Looking at TDS from the period of record shows that values were higher in both E-3 Shallow and Deep before closure. Before closure TDS ranged near or above 1,200 mg/L periodically in these wells. Since closure, TDS has decreased, and is currently near or below 300 mg/L. The decreasing trends in these wells since closure is statistically significant.

Both wells have had period detections of VOC, although all VOC have been nondetected in E-3 Shallow for the last five years. In E-3 Deep, there have been occasional detections of chloroethene, at 1 to 2 µg/L, between 2002 and 2013. Methyl tert-butyl ether (MTBE) was detected in E-3 Deep in 2002 (6.4 µg/L), 2009 (0.52 µg/L), and 2014 (0.74 µg/L). Tert-butyl alcohol (TBA) was detected in E-3 Deep in August 2014 at 13 µg/L.

In the E-4 Shallow and Deep pair (not shown on **Figure 11**), TDS in August 2014 was at 550 mg/L in the shallow aquifer and 460 mg/L in the deep aquifer. MTBE and TBA were nondetected in the shallow aquifer. In the deep aquifer, MTBE was detected at 0.6 µg/L and TBA at 6.9 µg/L in August 2014.

At the immediate northern edge of the Landfill mound and crossgradient of the waste, the 6-E Shallow and 6-W Deep pair show no significant trends in TDS for the period of record. Since closure, however, both show significant decreasing trends. Over the last five years, TDS has hovered around 200 mg/L for both wells. VOC have always been nondetected in 6-E Shallow; VOC have not been detected since 2001 in 6-W Deep.

In the shallow aquifer farther north and crossgradient of the Landfill mound, well W-10 Shallow shows no significant trends for TDS, although there are distinct seasonal variations in TDS concentrations. TDS generally ranges between 100 and 300 mg/L, seasonally. VOC have always been nondetected.

UPGRADIENT OF LANDFILL MOUND

Figure 12 shows the time-series graphs for wells upgradient of the Landfill mound. The well pair W-1E Shallow and W-1W Deep historically showed relatively high TDS concentrations (500 to 800 mg/L) which were related to the previous waste ponds. After closure of the waste ponds, TDS in this well pair decreased almost immediately, and has remained relatively constant

since. Current TDS values generally are less than 150 mg/L for the deep aquifer and less than 200 mg/L for the shallow aquifer. VOC have always been nondetected in this well pair.

Well SM-7, in the shallow aquifer to the north of the W-1E/W-1W pair, shows a similar pattern. Historic TDS values were as high as 1,200 mg/L because SM-7 was near former waste ponds. After closure, TDS decreased immediately, and since 2006 has been stable, ranging from 100 to 150 mg/L. There was one VOC detection in 2009 (hexachloroethane at 110 µg/L); there have been no other detections during the period of record (1996 to present). It is likely that the hexachloroethane detection in 2009 represented outside contamination of some sort, not aquifer conditions.

Upgradient of the Landfill mound and generally outside of the influence of other Landfill features, the W-9 Shallow/Deep well pair has shown consistent water quality since 1997. For that period, TDS in the shallow aquifer here has been consistently just over 240 mg/L. In the deep aquifer, TDS has shown more variability than in the shallow aquifer, ranging between 100 and 250 mg/L. VOC have always been nondetected in this well pair.

STIFF PATTERNS OF WATER QUALITY

To further illustrate the general groundwater quality and changes over time, **Figure 13** shows Stiff patterns of water quality. Stiff patterns are constructed by plotting the concentrations of cations (sodium+potassium, calcium, and magnesium) on one side of a vertical axis and the concentrations of anions (bicarbonate+carbonate, chloride, and sulfate) on the other side of the axis (the concentration units are milliequivalents per liter, mEq/L). Connecting the plotted concentrations with lines forms a shape which is particular to a given water-quality type.

What is important to note with Stiff patterns are the size and shape. The larger the size, the more mineralized the water (higher ion concentrations). The shape has no inherent significance; that is, a particular shape does not indicate good or bad water quality. Rather, the shapes of different samples can be compared to see whether the water quality is similar or whether mixing of waters has occurred.

In the Landfill data set, there was sufficient data (all the cations and anions for a given well analyzed on the same date) to prepare Stiff patterns for 1995/1996, 2002, 2009, and 2014, to illustrate changes over time. Not all wells, however, had data for all these dates.

At the Landfill, the Stiff patterns for the upgradient well SM-7 clearly illustrate how the closure of the waste ponds improved groundwater quality. The 1996 pattern for SM-7 is significantly larger and of a different shape than the subsequent patterns.

As expected, the Stiff patterns of downgradient wells and those immediately adjacent to the waste show larger patterns than those upgradient or cross gradient. Wells E-2 Deep shows the largest current pattern (W-2 Deep, which has the highest TDS currently, did not have sufficient data to plot a 2014 pattern). Well SM-6 previously (1996) had a pattern similar in size and shape to the E-2 pattern, but its current pattern is more similar to background.

As with the TDS trends, the Stiff patterns for the E-3 pair illustrate water quality improvements since closure, by the decreasing pattern size.

There is a difference in the shape of the patterns between the E-1 Shallow/Deep location and the E-3 and E-4 location. The patterns at E-1 show similarities to the pattern of the leachate well, L-3, with a higher proportion of sodium compared to calcium. The patterns for E-3 and E-4 show a lower proportion of sodium compared to calcium. This difference suggests that groundwater quality in the E-1 location is affected by different conditions than at the E-3 / E-4 location, possibly because of landfill-gas impacts (discussed below).

LANDFILL GAS IMPACTS ON WATER QUALITY

In addition to potentially imparting VOC to groundwater, landfill gas can affect the mineral quality of groundwater because of its relatively high carbon dioxide (CO₂) content. Higher CO₂ leads to acidic conditions which can then lead to dissolution of naturally occurring minerals in the formation. Typically, landfill-gas impacts to the mineral quality of groundwater is shown by increases in bicarbonate alkalinity, calcium, and magnesium concentrations, without increases in sodium or chloride concentrations.

At the Landfill, atmospheric gases (oxygen and carbon monoxide) and methane are measured quarterly in probes immediately adjacent to the waste and in compliance (perimeter) probes at the property boundary. Methane has always been nondetected and oxygen has always been at or near atmospheric concentrations (approximately 21%) in the compliance probes. Thus, there has never been evidence of landfill gas at the property boundary.

In the probes immediately adjacent to the waste, methane had been detected periodically over the last five years in probes G1, G5, G, G7, and G16 (note that a G designation has been added to the gas probe names herein, for ease of reference and to avoid confusion with groundwater well names; we are not proposing to change the names of any of the probes).

Oxygen concentrations in the probes adjacent to waste also show the influence of landfill gas. **Figure 14** shows graphs of oxygen concentrations in the near-waste probes; although carbon dioxide is not measured directly, its concentration can be inferred from the oxygen concentrations because these two gases are the major components of landfill gas (carbon monoxide generally is nondetected at the Landfill). That is, if oxygen concentration is low, carbon dioxide concentration will be high. From the graphs in **Figure 14**, it can be inferred that carbon dioxide usually is higher in probes G1 (at least before 2013), G3, G5, G6, G7, G8, and G16, mainly along the southern and southwestern edge of the landfill.

Figures 15 and **16** show time-series graphs of the parameters that often are affected by landfill gas, for background well 9 and downgradient wells to the east and south of the waste. If groundwater quality is affected by landfill gas, bicarbonate alkalinity, calcium, and magnesium concentrations may be higher, without increases in sodium or chloride concentrations.

For bicarbonate and calcium (**Figure 15**), wells E-2 Deep and W-2 Deep currently have the highest concentrations, with W-2 Deep showing an increasing trend since 2002. Bicarbonate and calcium in E-2 Deep, although higher, has been stable since 2007. Bicarbonate and calcium generally have decreased in E-3 Shallow and Deep, and E-1 Shallow, since 2005. In E-1 Deep, bicarbonate is variable.

Magnesium (**Figure 16**) shows similar trends in these wells, although the increasing trends in E-2 Deep and W-2 Deep are more pronounced, and the rate of increase has become greater since late 2011. Sodium (**Figure 16**) in most wells is variable and does not show observable trends.

Based on the above, it is possible that wells E-2 Deep and W-2 Deep are affected by landfill gas. If landfill-gas effects extend downgradient, they are mixed with effects from landfill leachate, as illustrated by the shapes of the Stiff patterns (**Figure 13**). The shapes of the Stiff patterns for the E-1, E-3, and E-4 well pairs suggest mixing of leachate (as illustrated by L-3) and landfill-gas (as illustrated by E-2 Deep) impacts.

Although there are indications of landfill-gas impacts on mineral groundwater quality, it does not appear that landfill gas has imparted significant concentrations of VOC to groundwater. For example, in E-2 Deep, immediately adjacent to waste, VOC have only been detected once (hexachloroethane at 110 µg/L in August 2009); between 1996 and through 2015, all other VOC have been nondetected. In W-2 Deep, VOC have been nondetected for at least 20 years.

PROPOSED CHANGES TO MRP

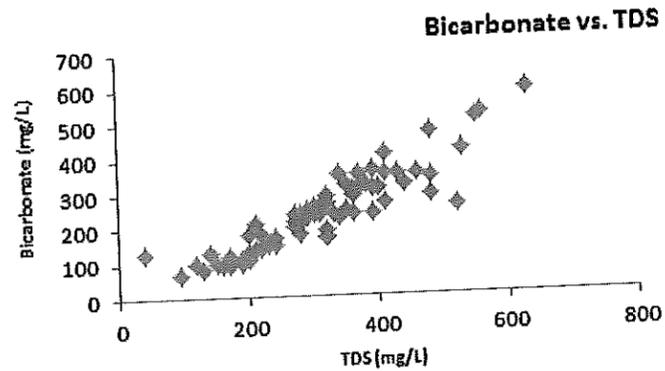
Based on the above discussion, we propose the following changes to the monitoring program at the Landfill; **Table 1** (page 13) summarizes the proposed monitoring program:

- Retain W3S, 8-shallow, 10-shallow, SM-7 for water-level measurements, but eliminate them for water-quality monitoring. These wells are crossgradient or upgradient of the landfill, they are between other well sets, and they show relatively stable and relatively good water quality. Keeping them on the routine monitoring schedule is not adding to a better understanding of groundwater quality, nor helping with evaluation of potential downgradient impacts.
- Evaluate the physical condition of well W-2 Deep, and eliminate from monitoring if there is evidence of damage. The pattern of TDS increase in W-2 is unusual, in that there is not a correlative increase in TDS in any of the downgradient wells. If the increase in TDS in W-2 was attributable to significant leachate migrating to groundwater over such a long period (almost 30 years), it would be expected that the downgradient wells would be showing increasing trends. All downgradient wells are showing decreasing trends, however, bringing into question whether the increase in W-2 reflects actual leachate migration. As discussed above, the increasing trends in certain mineral parameters may be related to landfill-gas impacts, although no other nearby wells show a similar trend. Therefore, we recommend

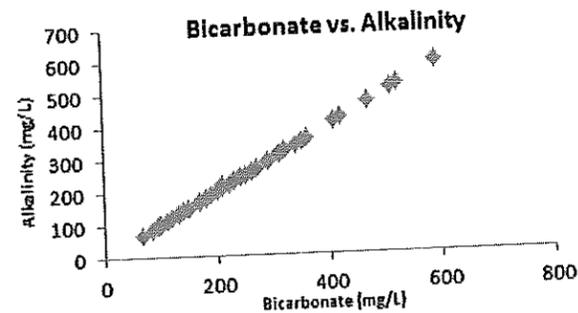
evaluating the casing with a downhole camera survey, to evaluate whether the casing is damaged. If the casing is damaged, the well should be properly abandoned.

- Reduce the routine monitoring mineral parameter set to field parameters (pH, EC, turbidity), TDS, and chloride. TDS is a good stand in for most of the routine monitoring parameters that are routinely detected. For example, see the graph to the right for bicarbonate vs. TDS. It is clear that monitoring TDS indicates whether bicarbonate is increasing or decreasing; graphs for the other major cations are similar.

The original intent when Title 27 was enacted back in 1992 was that a site would have a short list of indicator parameters that would be monitored routinely. The indicator parameters needed to be conservative (that is, they would quickly indicate landfill influence) and representative of other parameters. Based on these conditions, chloride generally is used as a conservative indicator of landfill influence (it is not attenuated to any degree). In the case of the Landfill, TDS clearly is a good indicator for the major cations.



- Reduce routine (semiannual) VOC monitoring to the easternmost downgradient wells (E-1 Shallow, E-1 Deep, E-3 Shallow, E-3 Deep, E-4 Shallow, and E-4 Deep). The area of concern for VOC monitoring is towards neighboring residences. Routine monitoring of VOC in the upgradient and crossgradient wells (essentially always nondetected) is not adding to compliance evaluation. Likewise, the wells in the interior of the site have only occasional detections, and continued routine monitoring does not help with compliance evaluation.
- Eliminate selected water-quality parameters. There are several parameters currently monitored that are (1) almost always nondetect, (2) not useful in evaluating landfill influence, or (3) represented by other stand-in parameters, such as TDS and chloride. Fluoride, hardness, and alkalinity, would be included in this category. For example, at the Landfill, alkalinity is almost 100% represented by bicarbonate; there is no carbonate or hydroxide alkalinity in the waters at the site. See the graph of bicarbonate vs. alkalinity; it is almost a perfect straight line.



- For Constituent of Concern, monitor biennially (every other year) for VOC in all site wells with the exception of those listed in the first bullet, and for metals and mineral parameters in

all site wells. As described above, the proposed routine monitoring parameters will be satisfactory for tracking trends in groundwater quality.

- Eliminate quarterly gas monitoring of gas probes immediately adjacent to waste. The initial question for the installation of these probes was whether landfill gas was a significant source of VOC in groundwater. As discussed in the Landfill Gas Impacts section, above (pp. 9 – 10), there may be impacts from landfill gas on groundwater quality, as illustrated by mineral constituents. There is no evidence, however, that landfill gas is imparting significant quantities of VOC to groundwater (overall, VOC are rarely detected in groundwater at the site). Although monitoring of atmospheric gases in these probes has provided valuable information for interpreting groundwater conditions at the site, continued monitoring will not add to further understanding of site conditions or assist with compliance evaluation.

ADDITIONAL NON-ROUTINE SAMPLING

In an effort to reduce the NCRWQCB Threat/Complexity (T/C) Rating for the Landfill (currently 1A, the highest rating which reflects a high threat to water quality), NCRWQCB staff have agreed that the T/C Rating may be temporarily reduced if the DNSWMA samples two of the nearest residential wells to the Landfill. The T/C Rating would be temporarily reduced until a new MRP was approved.

NCRWQCB staff have stated that the T/C rate would be lowered once results show these wells are not impacted by the Landfill and the information is submitted in a report signed and stamped by an appropriate professional (email from Ms. Gina Morrison, NCRWQCB to Mr. Tedd Ward, DNSWMA, October 28, 2015).

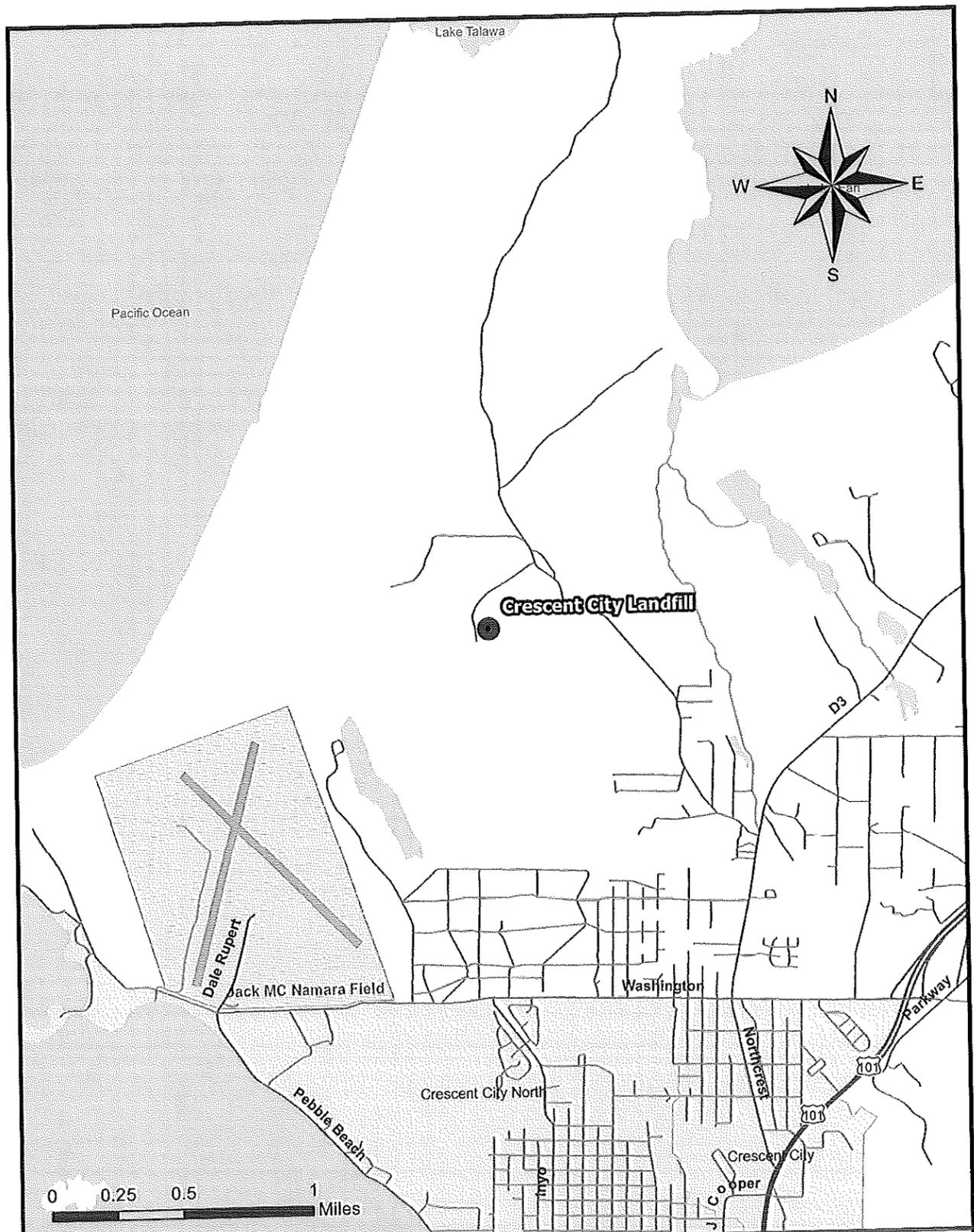
Based on our analysis herein, we recommend sampling the two closest and available wells to the E-3 and E-4 well pairs. The wells to be sampled will be formally identified after DNSWMA staff have canvassed the households in that area to determine who would be willing to have their well sampled. Lawrence & Associates will assist DNSWMA staff in developing a sampling protocol. In general, we recommend sampling as close to the well head as possible (for example, at a nearby outdoor faucet) and definitely upstream of any water treatment that the homeowner may use. If the residence is occupied full time, it would not be necessary to conduct extensive purging of the well, as it would be assumed that it operates frequently; field parameters would be monitored to document that the groundwater quality was stable at the time of sampling.

NCRWQCB staff have suggested that the off-site well be continued to be sampled until the DNSWMA installs additional downgradient well(s), presumably between the landfill and the residences. Then, the new monitoring well(s) would be substituted for the residential wells. Based on the analysis herein, it is neither clear whether an additional downgradient well is necessary at this time nor where one should be located. The location of new downgradient wells may depend, in part, on the results of the residential well sampling, and on the continued monitoring of the E-4 pair. We recommend evaluating the need and/or location for a new

downgradient well in six months, after one more sampling event for the E-4 pair and sampling of the residential wells.

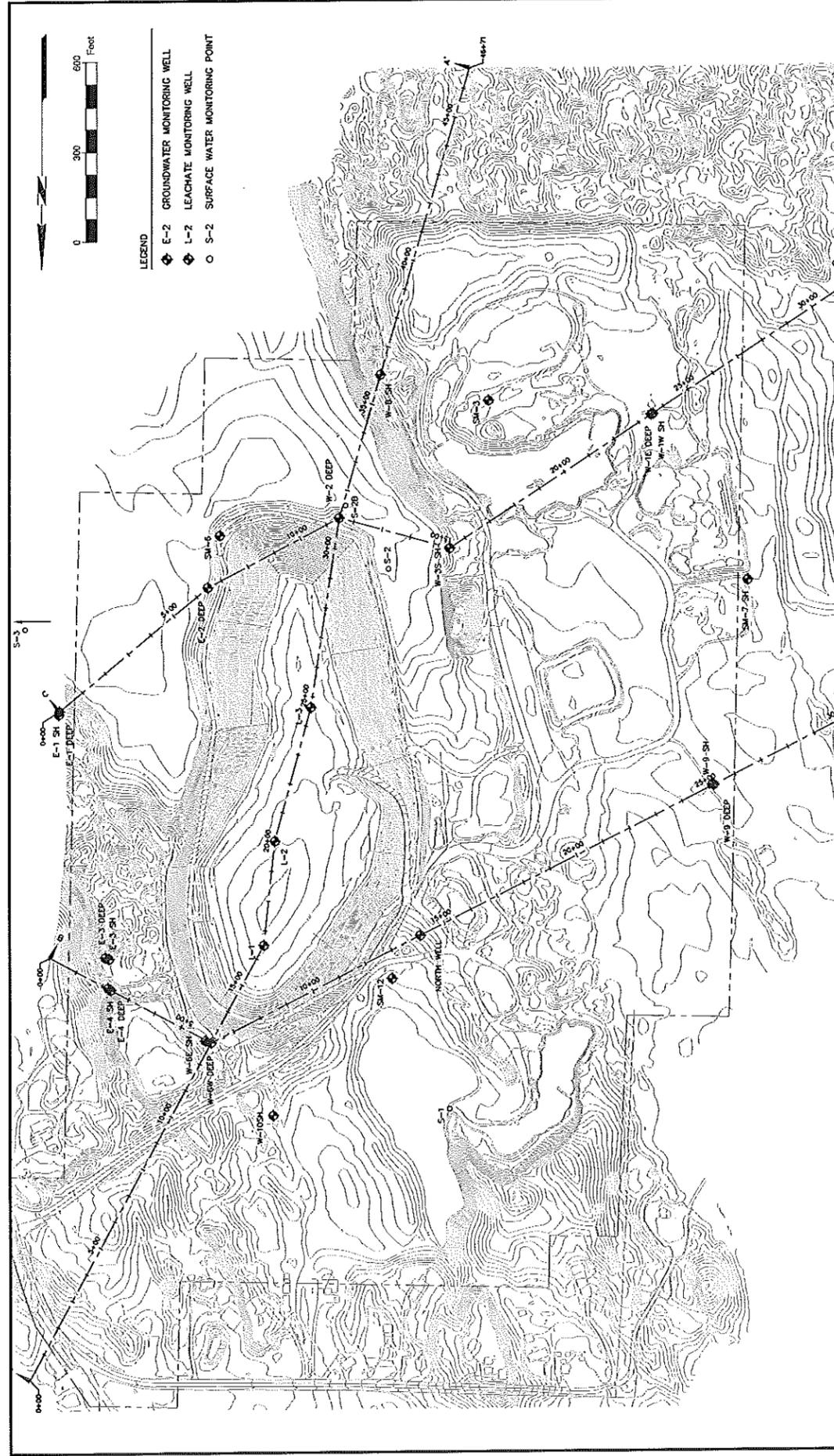
Table 1. Proposed Groundwater Monitoring Program Changes

Constituent	Units	Frequency	
		Current	Proposed
Include all wells currently in program.			
Depth to Water	Feet RP	Semiannual	Semiannual
Eliminate WELLS W-3 Shallow, 8-Shallow, 10-Shallow, and SM-7 FROM the following quality monitoring program.			
MONITORING PARAMETERS			
Specific Conductance	umhos/cm	Semiannual	Semiannual
pH	pH Units	Semiannual	Semiannual
Total Dissolved Solids	mg/L	Semiannual	Semiannual
Chloride	mg/L	Semiannual	Semiannual
VOC E-1 Shallow, E-1 Deep, E-3 Shallow, E-3 Deep, E-4 Shallow, and E-4 Deep	µg/L	Semiannual	Semiannual
VOC All Other Wells	µg/L	Semiannual	Biennial
Chemical Oxygen Demand	mg/L	Semiannual	Biennial
Bicarbonate/Carbonate	mg/L	Semiannual	Biennial
Nitrate	mg/L	Semiannual	Biennial
Sulfate	mg/L	Semiannual	Biennial
Sodium, Potassium, Calcium, Magnesium	mg/L	Semiannual	Biennial
Metals	µg/L	Semiannual	Biennial
PARAMETERS TO ELIMINATE			
Total Alkalinity	mg/L	Semiannual	Eliminate
Hardness	mg/L	Semiannual	Eliminate
Fluoride	mL/L	Semiannual	Eliminate
Gases in Probes Adjacent to Waste	Varies	Quarterly	Eliminate



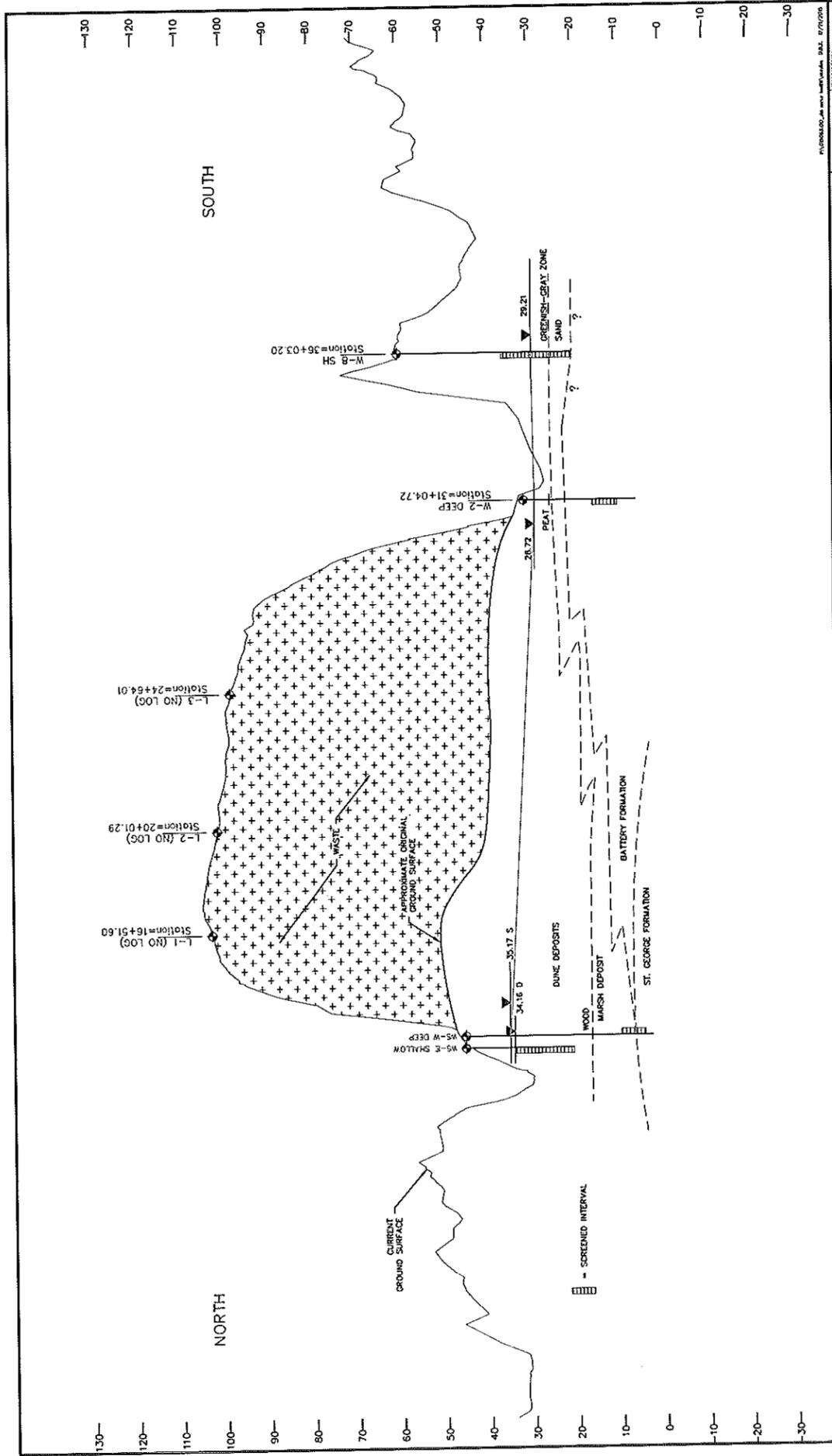
SITE VICINITY MAP

PROJECT NAME: CRESCENT CITY L.F.	PROJECT 015063.00	DATE: 11/9/2015
CLIENT: DEL NORTE CO.	DRAWN BY: D. ZAITZ	FIGURE 1
SCALE: 1 in = 0.5 miles	CHECKED BY: B. LAMPLEY	



NO.	DATE	REVISIONS	BY	CHK	PROJECT NO.	PROJECT ID:	DATE
					0106000		
			D. LEATZ		SCALE	1"=50'	
			ENGINEER		DATE		
			CHECKED BY:		DATE		
					DEL NORTE SOLID WASTE MGMT AUTHORITY		
					CRESCENT CITY LANDFILL		
					 LAWRENCE & ASSOCIATES ENGINEERS/ARCHITECTS		
					ORIGINAL SCALE IN INCHES		
					DRAWING: FIGURE 3		
					SHEET: OF		
					DATE: 11/22/2016		

CROSS SECTION PLAN



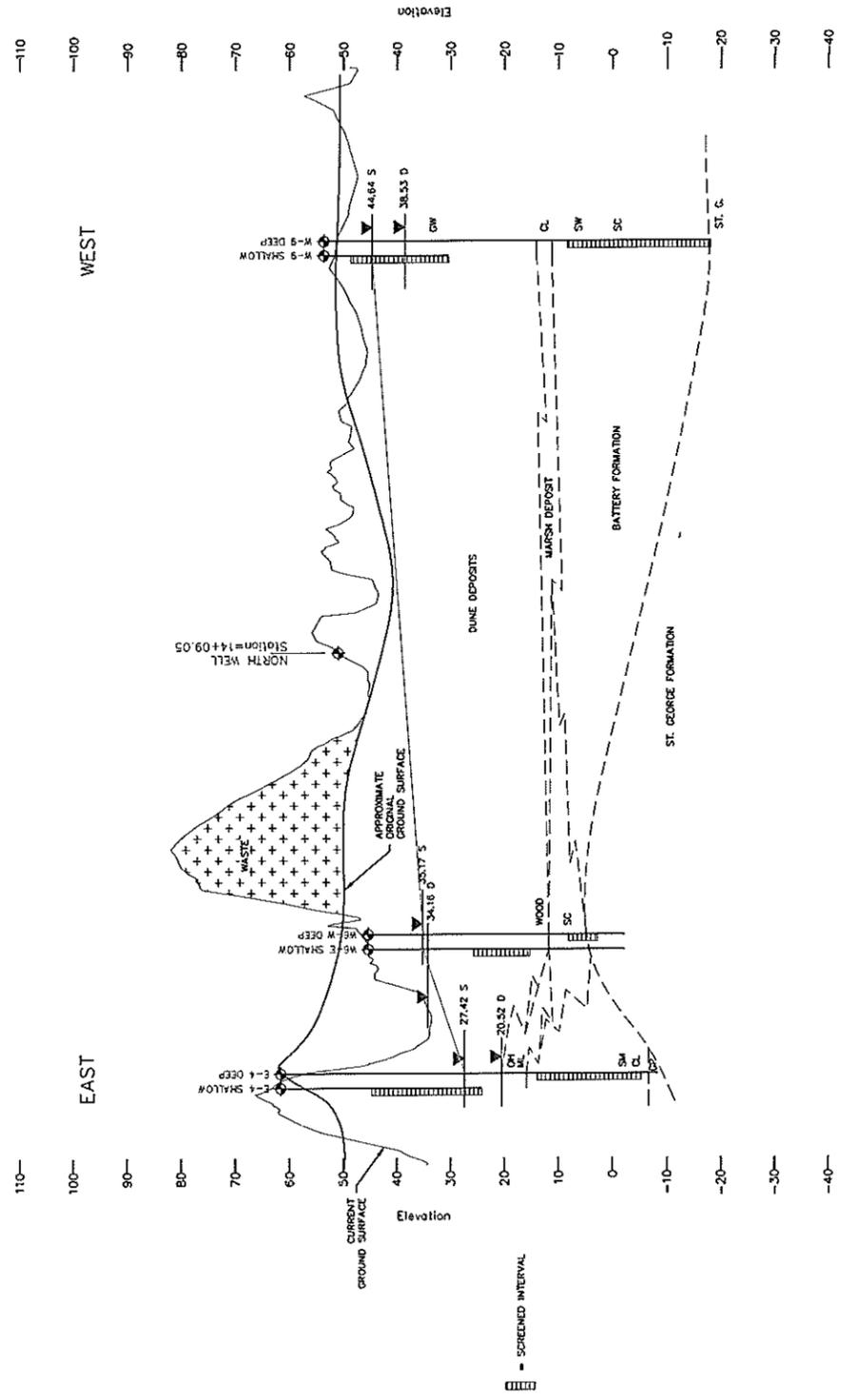
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			ENGINEER:		DATE:	1/28/15
			CHECKED BY:		DATE:	

DEL NORTE SOLID WASTE MGMT AUTHORITY
CRESCENT CITY LANDFILL



FIGURE 4
CROSS SECTION A-A, SHOWING
STATIGRAPHY AND GROUNDWATER
ELEVATIONS ON 1/28/15

DATE: 1/27/2015
SHEET: OF



NO.	DATE	REVISIONS	BY	DATE	PROJECT NO.	PROJECT I.C.
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			CHECKED BY:		DATE:	



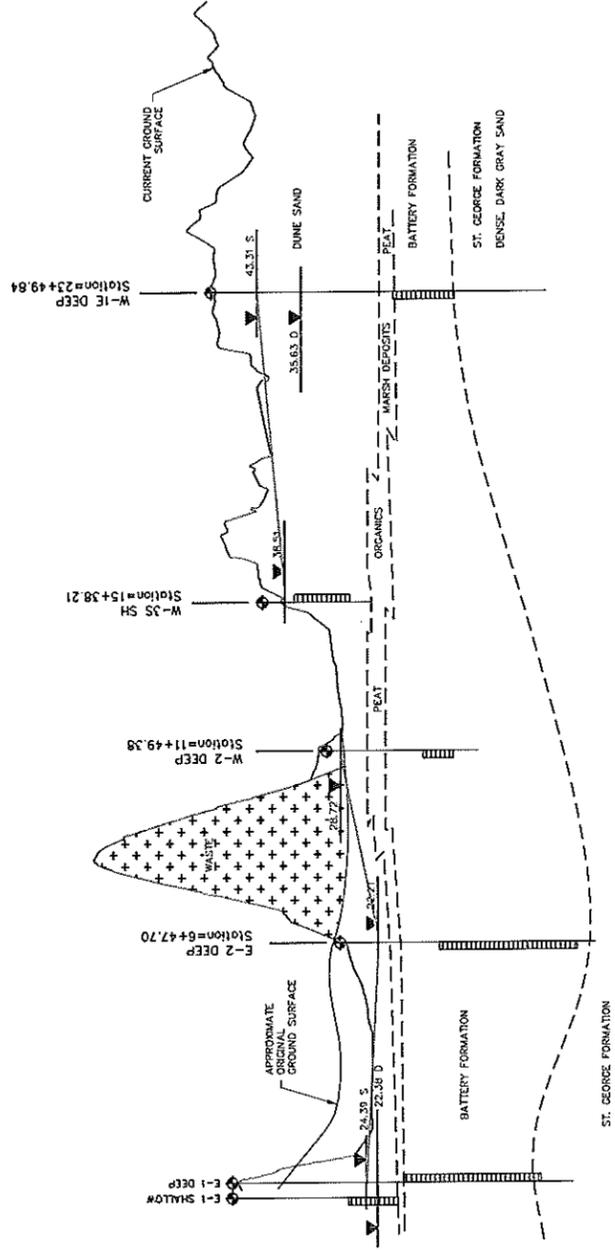
DEL NORTE SOLID WASTE MGMT AUTHORITY
CRESCENT CITY LANDFILL

CROSS SECTION B-B, SHOWING
STATIGRAPHY AND GROUNDWATER
ELEVATIONS ON 1/28/15

100—
90—
80—
70—
60—
50—
40—
30—
20—
10—
0—
-10—
-20—
-30—
-40—
-50—

Elevation

— SCREENED INTERVAL



NO.	DATE	REVISIONS	BY	CHKD	PROJECT NO.	PROJECT ID	ORIGINAL SCALE IN INCHES	0 1 2
					075602.09		1"=100'	
			D. ZATZ		ENGINEER	DATE:		
					ENGINEER	DATE:		
					ENGINEER	DATE:		
					ENGINEER	DATE:		

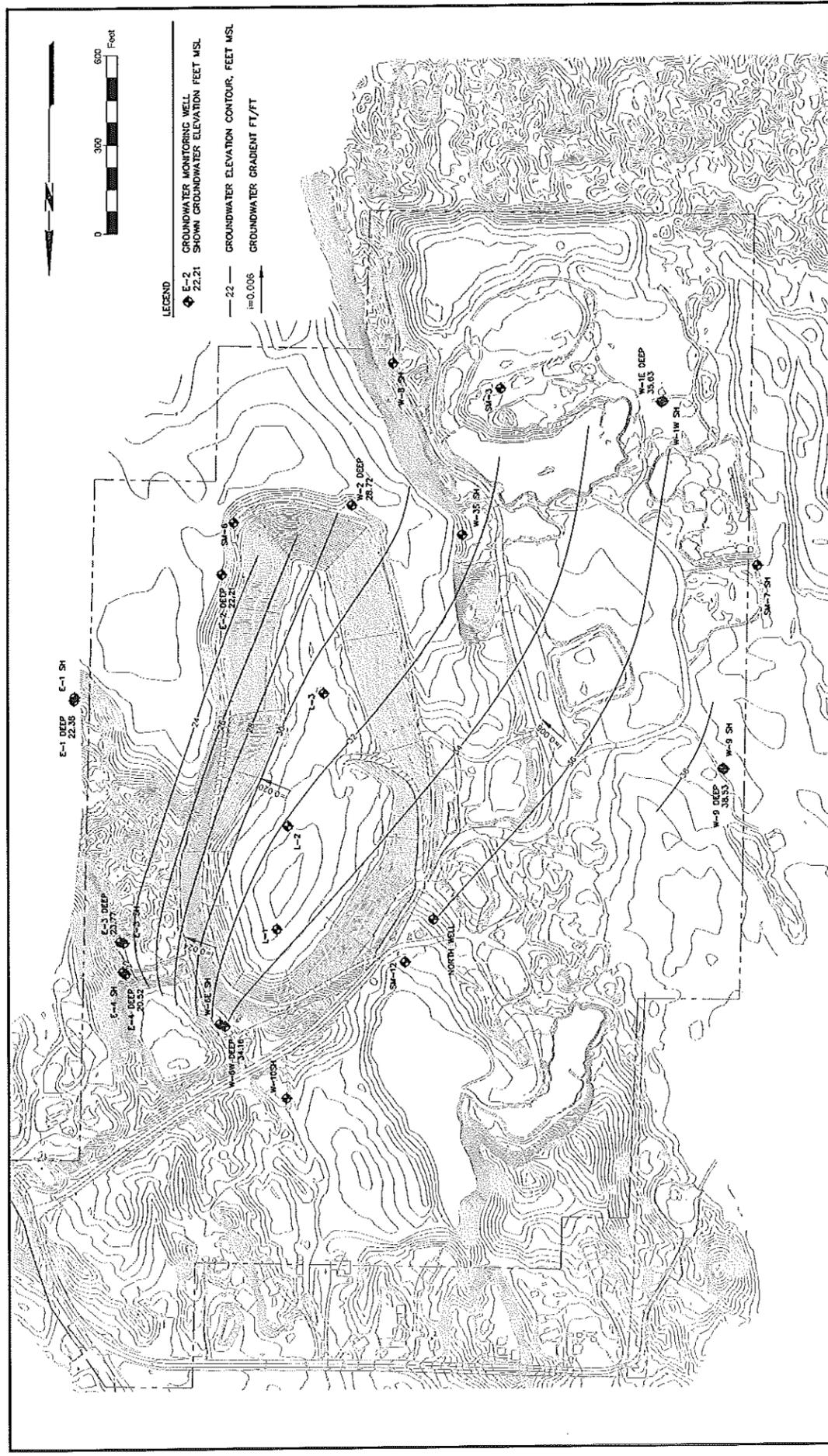


DEL NORTE SOLID WASTE MGMT AUTHORITY
CRESCENT CITY LANDFILL

CROSS SECTION C-C' SHOWING
STRATIGRAPHY AND GROUNDWATER
ELEVATIONS ON 1/28/15

DRAWING
FIGURE 6
SHEET
OF
DATE
1/13/2016

1:\work\075602.09\del_norte_landfill\fig6.dwg 1/13/2016



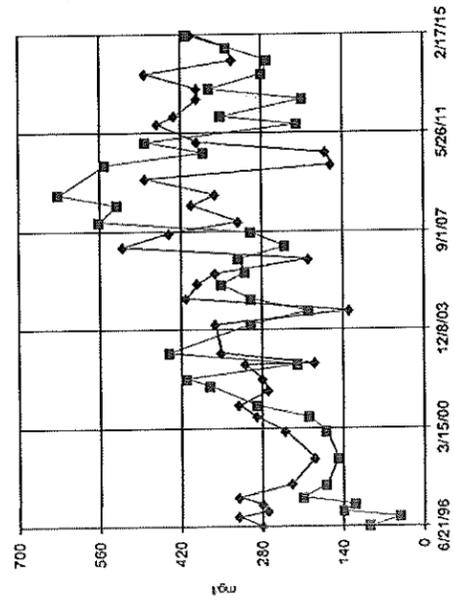
LEGEND

- ◆ E-2 GROUNDWATER MONITORING WELL
- ◆ 22.21 SHOWN GROUNDWATER ELEVATION FEET MSL
- 22 — GROUNDWATER ELEVATION CONTOUR, FEET MSL
- 1:10.00S GROUNDWATER GRADIENT FT/FT

NO. DATE		REVISIONS		BY	CHK	PROJECT NO.	PROJECT ID	ORIGINAL SCALE IN INCHES		 LAWRENCE ASSOCIATES ENGINEERS & SURVEYORS	DEL NORTE SOLID WASTE MGMT AUTHORITY	DEEP AQUIFER GROUNDWATER ELEVATION CONTOUR MAP - JAN. 28, 2015	DRAWING FIGURE 8 SHEET OF DATE: 11/22/2015
						010503.05	14157				CRESCENT CITY LANDFILL		
						DRAWN BY:	SCALE:						
						CHECKED BY:	DATE:						

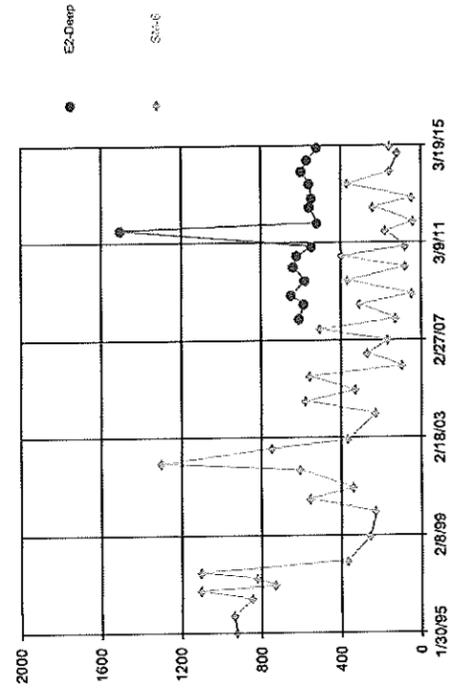
FIGURE 8 OF 11

Time Series



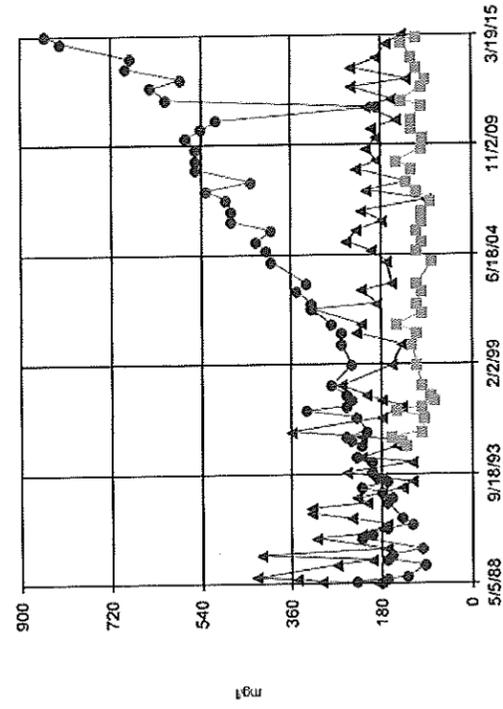
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Facility: Crescent City Landfill Data File: CCLF_Stats

Time Series



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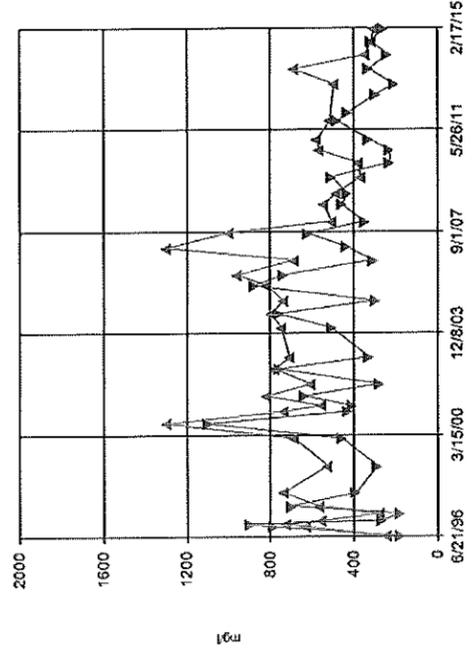
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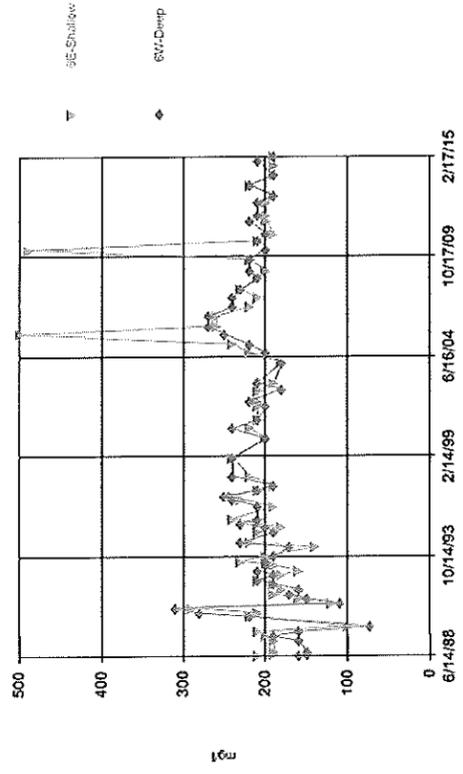
FIGURE 10

Time Series



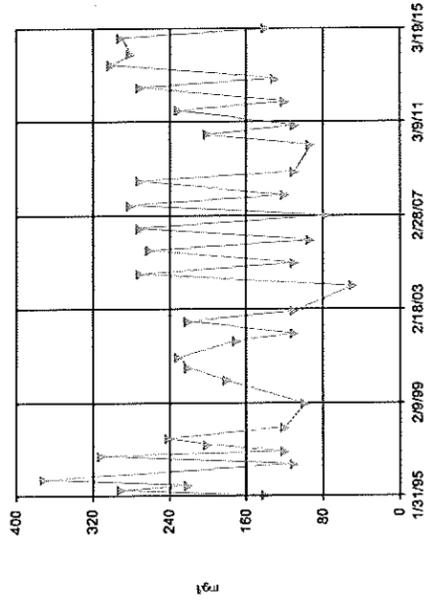
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Time Series



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Facility: Crescent City Landfill Data File: CCLF_Stats

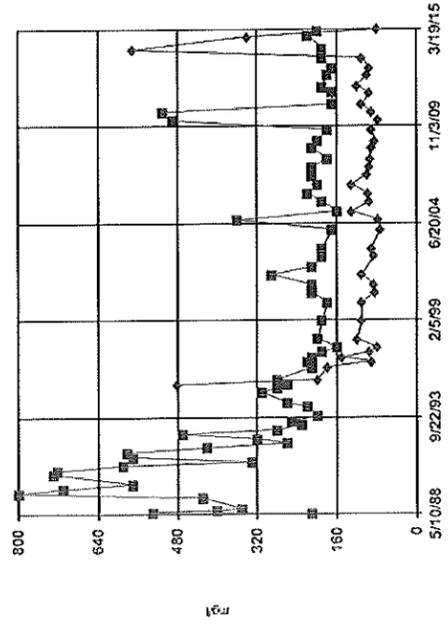
Time Series



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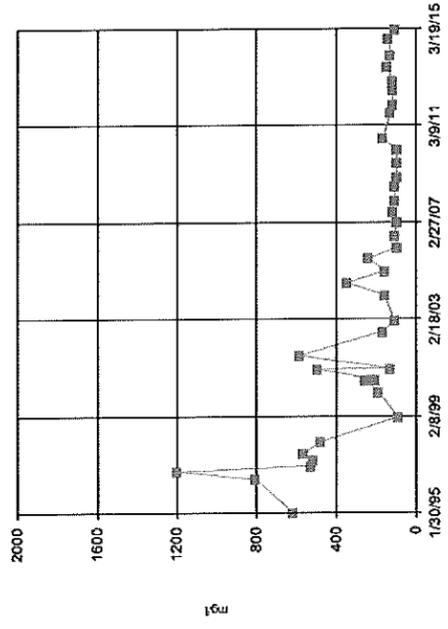
FIGURE 11

Time Series



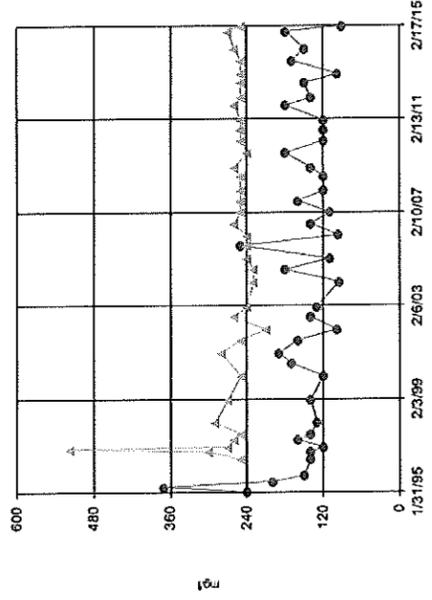
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Time Series



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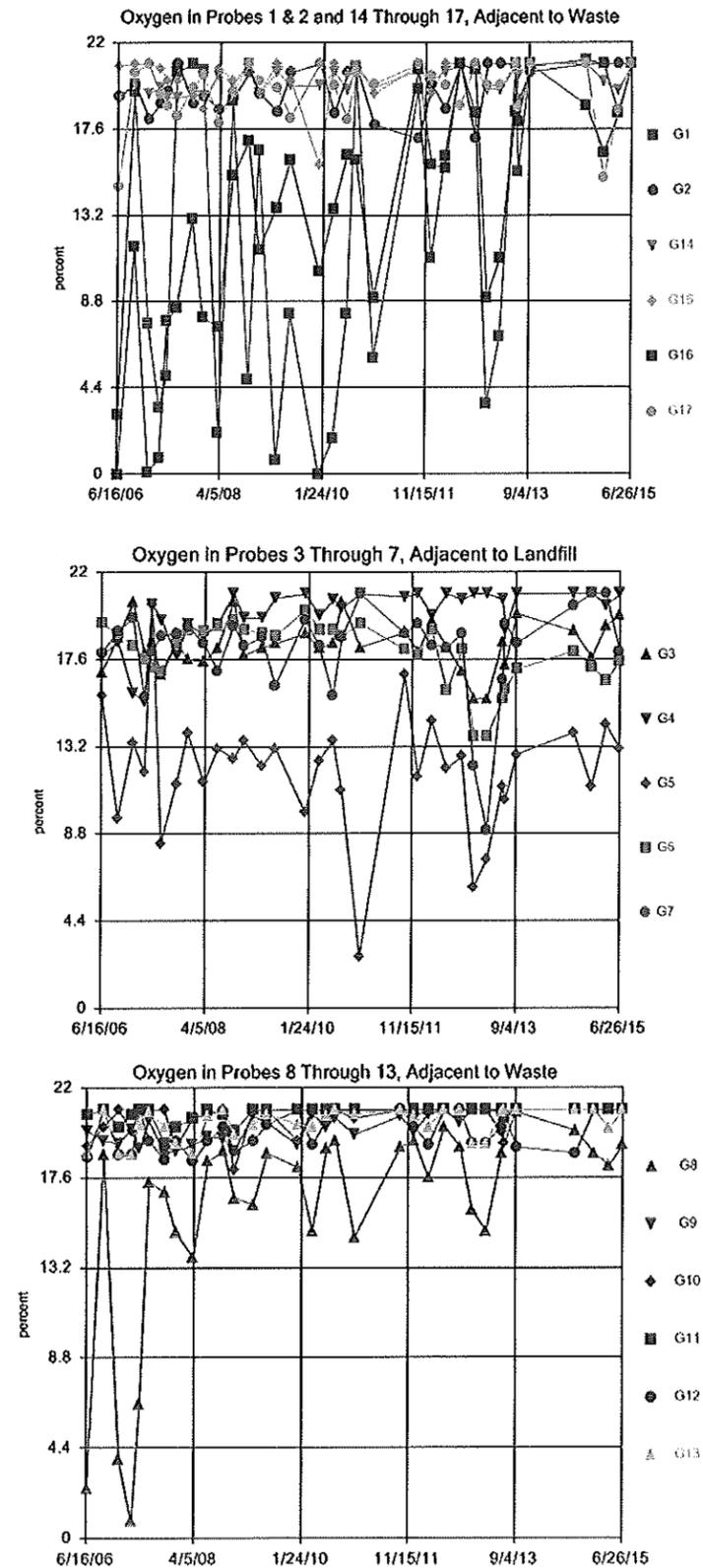
Time Series



Constituent: TDS Analysis Run 10/26/2015 12:32 PM
Facility: Crescent City Landfill Data File: CCLF_Stats

FIGURE 12

CRESCENT CITY LANDFILL



G designations added for this report only to distinguish gas probes from wells in the database used for this analysis.

FIGURE 14

CRESCENT CITY LANDFILL

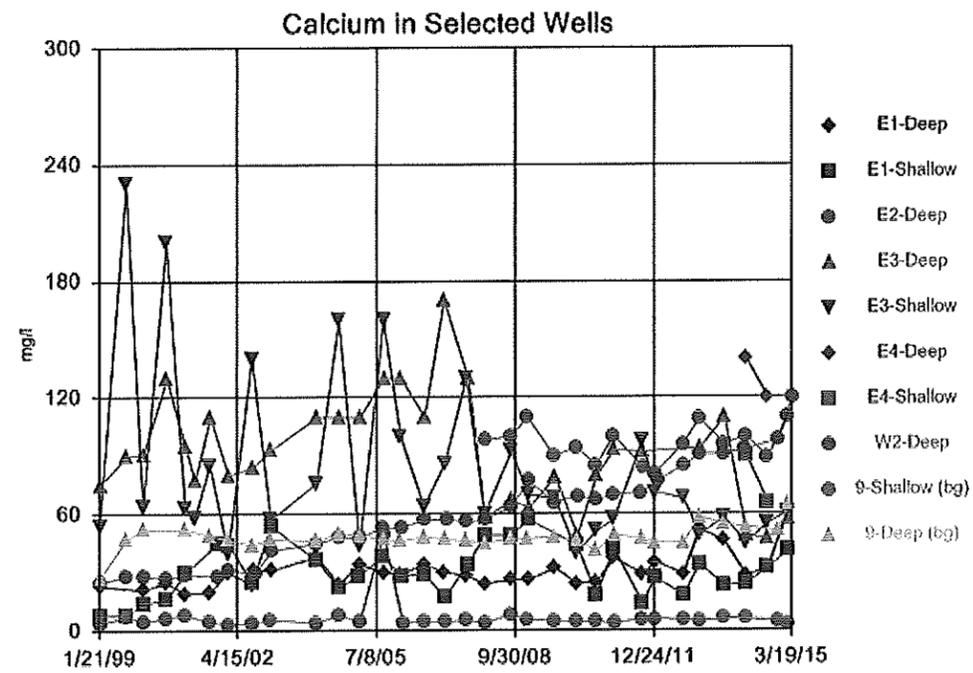
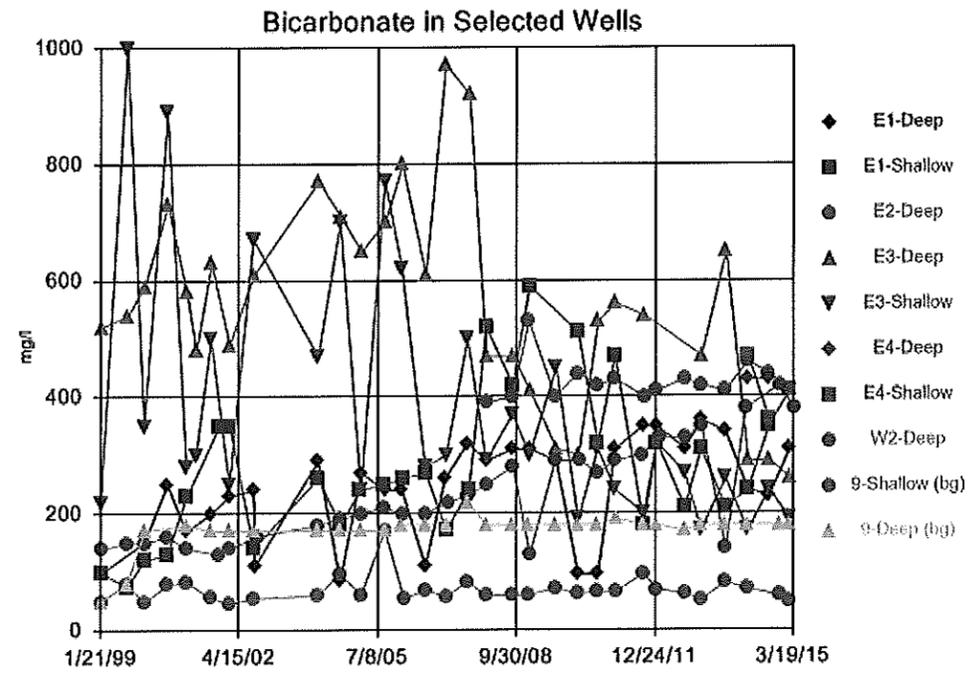


FIGURE 15

CRESCENT CITY LANDFILL

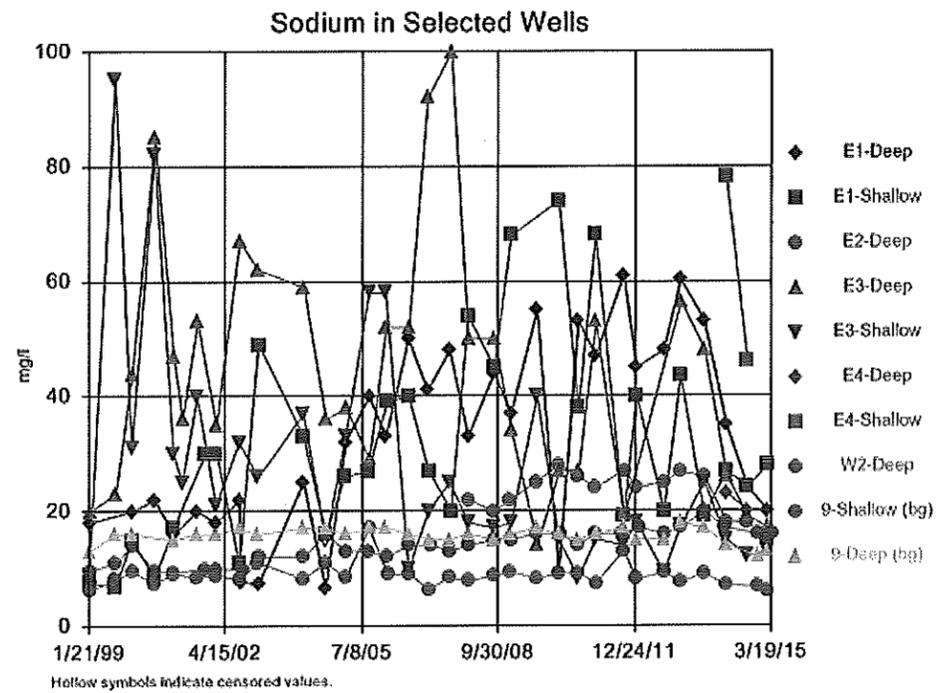
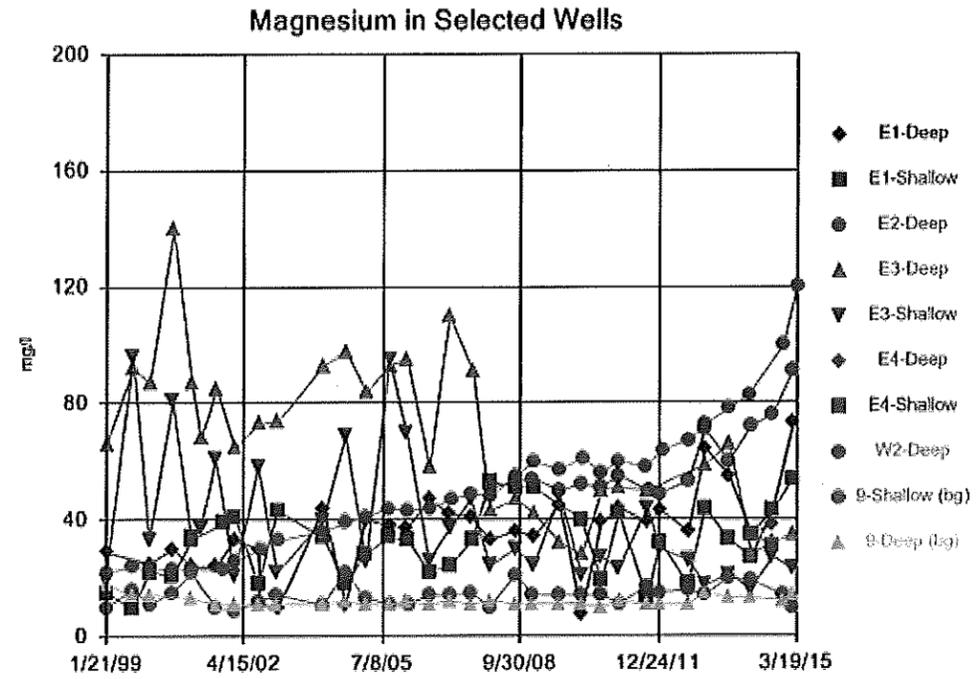


FIGURE 16

ATTACHMENT A
WASTE DISCHARGE REQUIREMENTS ORDER No. 97-90

030501

California Regional Water Quality Control Board
North Coast Region

Order No. 97-90
I.D. No. 1A77002ODN

Waste Discharge Requirements
and
Recision of Cease and Desist Order No. 94-137

For

Del Norte Solid Waste Management Authority
and the
County of Del Norte

Crescent City Solid Waste Disposal Site
Class III Waste Management Unit

Del Norte County

The California Regional Water Quality Control Board, North Coast Region (hereinafter Regional Water Board), finds that:

1. On September 21, 1994, the City of Crescent City and the County of Del Norte formed a joint-powers agency entitled the Del Norte Solid Waste Management Authority (the Authority). The County of Del Norte and the Authority are hereafter referred to as the discharger. The Authority is responsible for all solid waste-related activities within Del Norte County including operation of the Crescent City Solid Waste Disposal Site. The landfill site (APN No's 110-020-08 and 110-020-43), which is owned by the County of Del Norte is located off Old Mill Road approximately two miles north of Crescent City, California in the East $\frac{1}{2}$ of Section 7, T16N, R1W, HB&M. The County of Del Norte has exchanged 17.68 acres of land on the east side of the landfill (two parts of 110-020-08) for 16.36 acres of property on the west side of the landfill (a portion of 110-020-69). The purpose of the exchange is to align the property boundaries so that the landfill footprint and associated closure activities do not occur on State Park lands.
2. The joint powers agreement provides that 180 days after written notice either party may withdraw from the agreement. It also provides that the Authority may be dissolved by agreement of the City and County. In the event the Authority is dissolved, the County of Del Norte will be responsible for the terms of this Order.
3. The landfill began operations in the mid 1950s as a burn dump. Land-filling of waste began about 1972. The County of Del Norte maintained ownership and responsibility for operations of the landfill from its inception until formation of the Authority. The site is adjacent to State Park property and consists of two parcels totaling 160 acres. Approximately 22 acres have been used for sanitary landfill purposes. The site receives about 50 tons per day of municipal solid waste from commercial haulers and from the general public. The site also receives non-hazardous, digested and de-watered sludge from the City of Crescent City municipal waste water treatment plant.
4. The Regional Water Board adopted Order No. 94-135, Waste Discharge Requirements for the Crescent City Landfill on December 8, 1994. The Order contained two date-specific prohibitions and a requirement that the disposal of solid waste to the landfill cease when final contours (as presented in the Final Closure and Post-closure

Maintenance Plan, dated September 1994, by Brown, Vence and Associates) were reached. (The closure plan as finally approved is now dated November 1995). The date-specific prohibitions required the discharge of whey from a local cheese processor and the discharge of septage and portable-toilet waste to cease by June 1, 1996. Compliance with the June 1, 1996 prohibitions was achieved as required by the order.

Provision 1 of the order contained a time schedule of tasks leading to the closure of the landfill at the "Earliest Practical Date". The tasks have been completed as required and the closure process will begin within 60 days of the landfill reaching its final contours as described in the Final Closure and Post-closure Maintenance Plan, November 1995; Brown, Vence and Associates.

5. On December 8, 1994 the Regional Water Board adopted Cease and Desist Order No. 94-137 requiring the Del Norte Solid Waste Management Authority and the County of Del Norte to complete the tasks described in Finding 4 above and develop and implement a monitoring program meeting the terms of Section 10 of Order No. 93-83, General Waste Discharge Requirements for Municipal Solid Waste Landfills. The terms of Cease and Desist Order No. 94-137 have been fully attained.
 6. Federal Solid waste regulations which were incorporated into Order No. 93-83, General Waste Discharge Requirements Implementing Provisions of the Federal Landfill Regulations, require all owners/operators of municipal landfills to submit the following information in accordance with a prescribed time schedule:
 - a. Review of existing siting criteria,
 - b. Landfill closure specifications,
 - c. Preparation of a revised monitoring program,
 - d. Document the existing landfill footprint,
 - e. Establish a financial mechanism for closure and remedial action.
- The discharger has complied with General Order No. 93-83 Provisions a through e listed above.
7. In 1996, the discharger completed the first phase of closure work which resulted in a permanent cover on 46 percent of the surface of the landfill. Final closure is planned after reaching the final refuse contours on the remainder of the landfill as described in the November 1995 Closure Plan.
 8. The landfill is not located near a known Holocene fault, and no evidence of a surface fault rupture or displaced strata was observed within 3000 feet of the site.
 9. The landfill is not located within a 100-year flood-plain. Land within 1000 feet of the site is used for rural residential purposes and State park open space for recreation and wildlife habitat.
 10. Surface runoff in the vicinity of the site occurs as rainfall runoff and surface discharges of infiltrated rainfall from sand dunes into inter-dune depressions. Overflow from the North Pond enters a marsh and wetland along the south and east side of the site. Surface water ultimately discharges to Lake Earl to the north of the site.

11. Pursuant to Title 27, Division 2, Subdivision 1, Section 20380 of the California Code of Regulations, the Authority has set up an enterprise fund account to assure final closure of the landfill and for corrective actions for all known or reasonably foreseeable releases from the landfill.
12. The Water Quality Control Plan for the North Coast Region includes water quality objectives for point and non-point source discharges and statewide plans and policies.
13. The beneficial uses of ground water in the vicinity of the landfill include:
 - a. domestic and agricultural water supply
 - b. surface water recharge
14. The beneficial uses of Lake Earl and its tributaries include:
 - a. water contact recreation
 - b. non-contact water recreation
 - c. warm freshwater habitat
 - d. wildlife habitat
 - e. saline water habitat
 - f. fish migration
15. This facility is exempt from provisions of the California Environmental Quality Act because of its status as a Class I existing facility. The Regional Water Board finds that this facility will not cause adverse water quality related impacts if conducted in conformance with this Order.
16. The Regional Water Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity to submit their written comments and recommendations.
17. The Regional Water Board, in a public meeting, heard and considered all comments pertaining to the discharge.

THEREFORE, IT IS HEREBY ORDERED that Waste Discharge Requirements Order No. 94-135 and Cease and Desist Order No. 94-137 are rescinded and General Order No. 93-83 is amended to delete the County of Del Norte, Crescent City Solid Waste Disposal Site, Class III Waste Management Unit. It is further ordered that the discharger, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. DISCHARGE PROHIBITIONS

1. The discharge of any waste not specifically regulated by this Order is prohibited.
2. The treatment, storage or disposal of wastes including leachate, shall not cause a pollution, contamination, or nuisance, as defined by Section 13050 of the California Water Code (CWC). [Health and Safety Code, Section 5411]

For purposes of this Order, pollution of groundwater is defined as any Constituent of Concern exceeding its respective concentration limit at the point of compliance.

3. The discharge of hazardous wastes and designated wastes as defined in Title 23, Division 3, Chapter 15, section 2531 and Title 27, Division 2, Subdivision 1, Section 20210 is prohibited except as follows:
 - a. Leachate generated and collected at the site is defined as a designated waste and shall be managed at the site in conformance with specifications contained in this Order.
 - b. Wastes containing greater than one percent friable asbestos are defined as hazardous wastes in Title 22 of the California Code of Regulations. However, because these wastes do not pose a threat to groundwater quality, they may be discharged at this site if handled in conformance with Section 25143.7 of the California Health and Safety Code.
4. The discharge of liquid wastes or semi-solid wastes (wastes containing less than 50 percent solids) into disposal cells, except de-watered sewage or water treatment solids as provided in section 20220 of Title 27, is prohibited.
5. The discharge of municipal wastes outside of the existing waste footprint, as shown in the Final Closure and Post-closure Maintenance Plan, is prohibited.
6. The discharge of wastes, including leachate, to surface waters, or surface water drainage systems is prohibited.
7. The discharge of waste within five feet of the highest anticipated elevation of the groundwater surface is prohibited.
8. The discharge of waste to land which is not controlled by the discharger is prohibited.
9. The discharge of solid wastes into ponded water is prohibited.
10. Ponding of liquid wastes, over solid waste disposal cells including rainfall runoff and leachate is prohibited.
11. The disposal of solid waste to the landfill shall cease when the landfill reaches final contours presented in the Final Closure and Post-closure Maintenance Plan (FCPMP) dated November 1995. Final Closure shall occur in accordance with the FCPMP.

B. RECEIVING WATER LIMITATIONS

1. The waste discharge must not cause the dissolved oxygen concentration of the receiving waters to be depressed below 7.0 mg/l. In the event that the receiving waters are determined to have dissolved oxygen concentration of less than 7.0 mg/l, the discharge shall not depress the dissolved oxygen concentration below the existing level.

2. The discharge must not cause the pH of the receiving waters to be depressed below 6.5 nor raised above 8.5. Within this range, the discharge shall not cause the pH of the receiving waters to be changed at any time more than 0.5 units from that which occurs naturally.
3. The discharge must not cause the turbidity of the receiving waters to be increased more than 20 percent above naturally occurring background levels.
4. The discharge must not cause the receiving waters to contain floating materials, including solids, liquids, foams, and scum, in concentrations that cause nuisance or adversely affect beneficial uses.
5. The discharge must not cause the receiving waters to contain taste or odor-producing substances in concentrations that impart undesirable tastes or odors to fish flesh or other edible products of aquatic origin, that cause nuisance, or that adversely affect beneficial uses.
6. The discharge of waste must not cause esthetically undesirable discoloration of the receiving waters.
7. The discharge must not cause bottom deposits in the receiving waters to the extent that such deposits cause nuisance or adversely affect beneficial uses.
8. The discharge must not contain concentrations of biostimulants which promote objectionable aquatic growths to the extent that such growths cause nuisance or adversely affect beneficial uses of the receiving waters.
9. The discharge must not cause the receiving waters to contain toxic substances in concentrations that are toxic to, degrade, or that produce detrimental physiological responses in humans or animals or cause acute or chronic toxicity in plants or aquatic life.
10. The discharge must not cause a measurable temperature change in the receiving waters.
11. The discharge must not cause the receiving waters to contain oils, greases, waxes, or other materials in concentrations that result in a visible film or coating on the surface of the water or on objects in the water that cause nuisance or that otherwise adversely affect beneficial uses.
12. This discharge must not cause a violation of any applicable water quality standard for receiving waters adopted by the Regional Water Board or the State Water Board as required by the Federal Water Pollution Control Act, and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Federal Water Pollution Control Act, or amendments thereto, the Regional Water Board will revise and modify this Order in accordance with such more stringent standards.
13. The discharge must not cause concentrations of contaminants to occur at levels which are harmful to human health in waters which are existing or potential sources of drinking water.

14. The discharge must not cause concentrations of toxic pollutants in the water column, sediments, or biota that adversely affect beneficial uses.
15. The discharge must not cause acute or chronic toxicity in the receiving waters.

C. COMPLIANCE SCHEDULE

1. The Discharger shall cease the discharge of waste to the Crescent City Landfill as described in Prohibition No. 11 above.

D. DISCHARGE SPECIFICATIONS

1. Leachate removed from the landfill shall be discharged into above-ground, structurally sound storage tanks. Storage tanks shall have a berm or other revetment of adequate size and integrity to contain the largest potential accidental discharge of leachate.
2. Leachate removed from the landfill shall not be discharged into the landfill or below ground surface. Leachate may be spray irrigated on inactive disposal cells or for dust control on roads during summer months. Spray irrigation shall be in a manner that will promote evaporation and will not result in saturated soil conditions, ponding or surface runoff. Leachate spray irrigation systems and disposal areas shall be approved by the Executive Officer. Leachate shall be discharged off-site during winter months in a manner approved by the Executive Officer.
3. Wastes discharged at this site shall be provided with daily cover material designed and constructed to minimize percolation of precipitation through wastes. Daily cover shall consist of clean on-site earthen material compacted to a minimum thickness of six inches and graded to drain away from the active face. Alternative covers may be used upon approval of the Executive Officer. Only the active face of the disposal cell shall be left exposed to rainfall. The active face shall not be excessively large for daily waste placement. Inactive areas are those areas that will not be used for waste disposal within the next thirty day period. During the winter period (October 1 through April 30) all inactive areas shall be provided with intermediate cover material compacted to a minimum thickness of twelve inches and graded to drain.
4. Surface drainage from tributary areas and internal site drainage from surface or subsurface sources shall not contact or percolate through wastes discharged at this site. Drainage ditches shall be located, to the maximum extent possible, such that they do not cross over landfill areas. Site drainage over landfill areas shall be contained in drainage conveyance structures such as corrugated metal pipe or in drainage ditches which are lined with at least one foot of compacted soil having an in-place permeability of 10^{-6} cm/sec or less.
5. Annually, prior to October 1, the authority shall comply with the Storm Water Management and Erosion Control Plan for the landfill which was prepared by James A. Wyse, Inc. in March of 1996.
6. Waste disposal cells shall be designed and constructed to progress in an orderly and timely manner toward final landfill contours.

7. The discharger shall install a sufficient number of permanent surveyed monuments on and near the landfill from which the elevations of the cover can be determined. Such monuments shall be installed by a licensed land surveyor or registered civil engineer.
8. All wastes that are windblown, carried in surface runoff or otherwise removed from the active area shall be collected regularly and discharged back into the active area.

E. CONSTRUCTION SPECIFICATIONS

1. Precipitation and drainage control systems shall be designed and constructed to limit, to the greatest extent possible, ponding, infiltration, inundation, erosion, slope failure, washout, and over-topping from precipitation conditions of a 100-year, 24-hour storm event.
2. All containment structures and erosion and drainage control systems shall be designed and constructed under the direct supervision of a California registered civil engineer or certified engineering geologist and shall be certified by that individual as meeting the prescriptive standards and performance goals of Title 27.
3. Material used to construct liners and caps shall have appropriate physical and chemical properties to ensure containment of wastes over the operation life, closure and post-closure maintenance period of the landfill.
4. Liners and caps (used in final covers) shall have a minimum slope of three percent. In-place permeability's of liners and caps shall be determined in the field and in the laboratory using techniques approved by the Executive Officer. Construction methods and quality assurance procedures shall be sufficient to ensure that all parts of the liners and caps meet the permeability and compaction requirements.
5. Vegetation shall be established immediately upon final closure of a disposal cell. Vegetation shall be selected to require a minimum of irrigation and maintenance and shall have a rooting depth not in excess of the vegetative soil layer thickness.
6. Installation of the final cover shall be under the direct supervision of a California registered civil engineer or certified engineering geologist.
7. Landfill gas venting and removal systems shall be designed such that they do not allow leachate to flow out of a disposal cell through the liner or cap.
8. Construction quality assurance reports and as-built drawings shall be submitted to the Regional Water Board within 120 days of installation.

E. PROVISIONS

1. Availability

A copy of this Order shall be maintained at the discharge facility and be available at all times to operating personnel.

2. Severability

Provisions of these waste discharge requirements are severable. If any provision of these requirements is found invalid, the remainder of these requirements shall not be affected.

3. Operation and Maintenance

The discharger must maintain in good working order and operate as efficiently as possible any facility or control system installed by the discharger to achieve compliance with the waste discharge requirements.

4. Change in Discharge

The discharger must promptly report to the Regional Water Board any material change in the character, location, or volume of the discharge.

5. Vested Rights

This Order does not convey any property rights of any sort or any exclusive privileges. The requirements prescribed herein do not authorize the commission of any act causing injury to persons or property, nor protect the discharger from his liability under federal, State, or local laws, nor create a vested right for the discharger to continue the waste discharge.

6. Monitoring

The discharger must comply with the Contingency Planning and Notification Requirements Order No. 74-151 and the Monitoring and Reporting Program No. 97-90 and any modifications to these documents as specified by the Executive Officer. Such documents are attached to this Order and incorporated herein. Chemical, bacteriological, and bioassay analyses must be conducted at a laboratory certified for such analyses by the State Department of Health Services.

7. Unknown Release

If the discharger determines that a previously unknown physical release from the waste management unit as defined in Section 2550.1(a)(3), Chapter 15, has occurred, the discharger shall:

- a. Immediately notify the Regional Water Board verbally and take all necessary corrective actions. Written notification should be provided within 7 days of occurrence.
- b. Within 90 days institute an evaluation monitoring program, in accordance with Section 20420 and Section 20425, Title 27.

8. Statistical Evidence

Upon initial determination that there is statistical evidence of a previously unknown release from a waste management unit, the discharger shall:

- a. Immediately notify Regional Water Board staff verbally of the finding and provide written notification by certified mail within 7 days.
- b. Immediately initiate the verification monitoring to verify that there is a statistically significant release. Results of the verification procedure and initial statistical test shall be reported to the Regional Water Board by certified mail within 7 days of the last laboratory analysis.

9. Confirmed Previously Unknown Release

If the verification procedure confirms there is statistically significant evidence of a previously unknown release from the waste management unit, the discharger shall:

- a. Within 30 days sample all monitoring points in the affected medium and determine the concentration of all constituents of concern.
- b. Within 90 days submit a revised report of waste discharge proposing an evaluation program meeting the provisions of Section 20425, Title 27.
- c. Within 180 days of verifying statistically significant evidence of a release from a waste management unit, submit an engineering feasibility study for a corrective action program. The corrective action program shall meet requirements of Section 20430, Title 27, at a minimum.

10. Verified Previously Unknown Release

If the discharger verifies that there has been a statistically significant release from a waste management unit, the discharger may demonstrate that a source other than the waste management unit caused the evidence of a release or that the evidence is an artifact caused by an error in sampling, analysis, or the data analysis protocol. The discharger may make a demonstration in addition to or in lieu of submitting an amended report of waste discharge and an engineering feasibility study pursuant to Provision E.10. above. The discharger is not relieved of the requirements of Provision E.9. above unless the demonstration report is accepted by the Executive Officer. In making a demonstration, the discharger shall:

- a. Within 7 days of verifying evidence of a release, submit a report to the Regional Water Board by certified mail that the discharger intends to make a demonstration pursuant to Section 20420, Title 27.

- b. Within 90 days of verifying evidence of a release, submit a report to the Regional Water Board that demonstrates that a source other than the waste management unit caused the apparent release.
- c. Within 90 days of verifying evidence of a release, submit an amended report of waste discharge to make any appropriate changes to the detection monitoring program.

11. Changes in Ownership

The discharger shall notify the Regional Water Board in writing of any proposed change in ownership or responsibility for closure or post closure maintenance of the landfill. This notification shall be given prior to the effective date of the change and shall include a statement by the new discharger remaining closure and post closure maintenance activities will be in compliance with any existing waste discharge requirements and any revisions thereof. The Regional Water Board shall amend the waste discharge requirements to name the new discharger.

12. Inspections

The discharger shall permit authorized staff of the Regional Water Board:

- a. entry upon premises in which an effluent source is located or in which any required records are kept;
- b. access to copy any records required to be kept under terms and conditions of this Order;
- c. inspection of monitoring equipment or records; and
- d. sampling of any discharge.

13. Noncompliance

In the event the discharger is unable to comply with any of the conditions of this Order due to:

- a. equipment failure;
- b. accidents caused by human error or negligence; or
- c. flooding;
- d. slope failure;
- e. changes in site conditions;
- f. other causes such as acts of nature;

the discharger must notify the Executive Officer by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written notification shall include pertinent information explaining reasons for the noncompliance and shall indicate the steps taken to correct the problem and the dates thereof, and the steps being taken to prevent the problem from recurring.

14. Revision of Requirements

The Regional Water Board will review this Order periodically and may revise requirements when necessary.

15. Signatory Requirements

All permit applications, reports, or information submitted to the Regional Water Board, or the State Water Board shall be signed by either a principal executive officer or ranking elected official.

16. Proper Operation and Maintenance

The discharger shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) that are installed or used by the discharger to achieve compliance with this Order. Proper operation and maintenance includes adequate laboratory control and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems that are installed by a discharger only when necessary to achieve compliance with the conditions of this Order.

17. Remove and Relocate

The discharger shall remove and relocate any wastes discharged at this site in violation of this Order.

18. Change of Ownership

The discharger shall notify the Regional Water Board in writing of any proposed change of ownership or responsibility for construction, operation, closure or post-closure maintenance of the landfill. This notification shall be given prior to the effective date of the change and shall include a statement by the new discharger that construction, operation, closure, and post-closure maintenance will be in compliance with any existing waste discharge requirements and any revisions thereof. The Regional Water Board shall amend the existing Order to name the new discharger.

19. Change of Information

The discharger shall notify the Regional Water Board of changes in information submitted regarding the landfill, including any material change in the types, quantities, concentrations, or locations of wastes discharged; site operations and features; or proposed closure procedures, including changes in cost estimates. The discharger shall notify the Regional Water Board a reasonable amount of time before the changes are made or become effective. No changes shall be made without the approval of the Executive Officer.

20. Title 23 and 27 Compliance

The discharger shall comply with all solid waste requirements contained in Title 27, Division 2, Subdivision 1, and Title 23, Division 3, Chapter 15 not specifically referred to in this order.

21. Continued Responsibility

The Regional Water Board considers the property owner to have a continuing responsibility for correcting any problems which may arise in the future as a result of this waste discharge or water applied to this property during subsequent uses of the land for other purposes.

22. Monitoring Wells

The Discharger shall comply with all notice and reporting requirements of the State Department of Water Resources and the Del Norte County Health Department in the conduct of the construction, distruption, or abandonment of all monitoring wells used for compliance with this Order and with Monitoring and Reporting Program No. 97-90 as required by Section 13750 through 13755 of the California Water Code.

23. Termination

After notice and opportunity for hearing, this Order may be terminated or modified for cause, including but not limited to:

- a. Violation of any term or condition of this Order;
- b. Obtaining this Order by misrepresentation, or failure to disclose fully all relevant facts;

24. Financial Assurance

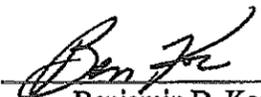
The discharger shall submit evidence as part of the required annual report that adequate financial assurance for corrective action and closure and post closure maintenance is still in effect and that the amount is adequate

25. Closure Plan

The discharger shall submit annually as part of the required annual report that the post closure maintenance plan is still adequate and in conformance with existing regulations.

Certification

I, Benjamin D. Kor, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, North Coast Region, on September 25, 1997.



Benjamin D. Kor
Executive Officer

California Regional Water Quality Control Board
North Coast Region

Monitoring and Reporting Program No. 97-90

For

Del Norte Solid Waste Management Authority

and the

County of Del Norte

Crescent City Solid Waste Disposal Site
Class III Waste Management Unit

Del Norte County

The discharger shall maintain a water quality monitoring program that is appropriate for detection and evaluation monitoring in compliance with the provisions of Title 27, Division 2, Subdivision 1 of Solid Waste Requirements that were formerly located in Title 23, Division 3, Chapter 15.

Compliance with this Monitoring and Reporting Program is required by Waste Discharge Requirements, Order No. 97-90. Failure to comply with the program constitutes non-compliance with the Order.

A. REPORTING

The discharger shall report monitoring data and information as required in the monitoring program. The monitoring data shall be arranged in tabular form so that the date, constituents, concentrations, and units are readily discernible. The data shall be summarized in a way that clearly illustrates compliance (or non-compliance) with waste discharge requirements. Graphical presentations are only required for those constituents which have exceeded the designated upper tolerance limits or maximum contaminate levels for drinking water at least once during the past three years. A succinct discussion of the monitoring results, including reference to any violations shall precede the tabular summaries.

In the event that leachate discharges occur, the discharger shall notify Regional Water Board staff within 24 hours of the occurrence. Monitoring reports shall be submitted to the Regional Water Board on January 15 and July 15 of each year. If for some reason the submittal date cannot be met the discharger shall notify Regional Water Board staff request an alternative date.

By January 15 of each year, the permittee shall submit an annual report to the Regional Water Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year. The annual report shall also discuss compliance and corrective actions taken or planned which may be needed to bring the facility in full compliance.

Method detection limits and practical quantification limits shall be reported by submitting a copy of the laboratory reporting sheet.

All sampling and analysis activity shall be reported including any sampling and analysis performed outside the requirements of this monitoring program.

B. WASTE DISCHARGE MONITORING

Quarterly volumes or weights of municipal solid waste that are discharged at the site shall be reported to the Regional Water Board. Types, quantities and volumes of special wastes shall be recorded separately and reported to the Regional Water Board. Special waste is considered to be any waste not normally associated with municipal solid waste.

C. GROUNDWATER MONITORING

The objectives of groundwater monitoring are; determination of the groundwater gradient, leak detection, and evaluation of the naturally-occurring variations in groundwater quality.

Monitoring wells as described in the Evaluation/Detection Monitoring Program prepared by Winzler and Kelly, October 1996 shall be monitoring as follows:

- A. The water level shall be measured in each well to determine the groundwater gradient and direction at least semi-annually, including the times of expected highest and lowest elevations. This information shall be displayed in tabular form and on a water table contour map and/or groundwater flow net. Typically the water levels will be measured during the months of August/September and January/February.
- B. Representative samples of groundwater from each well shall be collected semiannually on the same schedule as the groundwater gradient sampling. Prior to sampling, the bore hole shall be properly purged. Purging protocol and field sampling logs including equilibrium measurements, pumping rates, and other pertinent information shall be submitted. Samples shall be analyzed for the following constituents:

EPA 601/602	pH
Chemical Oxygen Demand	Hardness
Total Dissolved Solids	Specific Conductance
ICAP Metals	Calcium
Magnesium	Potassium
Sodium	Fluoride
Nitrate	Total Alkalinity
Bicarbonate Alkalinity	Sulfate
Carbonate Alkalinity	

D. STORM WATER SURFACE WATER MONITORING

STORM WATER

The objectives of storm water monitoring are; to evaluate the effectiveness of best management practices and compliance with basin plan objectives pertaining to the protection of receiving waters. Four representative samples shall be established at the landfill. Two sample locations will be in areas having received intermediate cover and winterization, one sample location will monitor runoff from the active area and the fourth site shall monitor runoff from the closed area. The discharger shall provide a map showing the sample locations.

Samples shall be taken three times per year in November, January and March upon receipt of more than one/half inch of rain in a 24-hour period whenever the cumulative rainfall for the preceding seven days was less than one/half inch. Samples from the inactive and closed areas shall be analyzed for the following:

Turbidity	Settleable Solids
pH	Flowrate
COD	Nitrate-Nitrogen

Samples from the active area shall be taken three times per year in November, January, and March and analyzed for the following:

Turbidity	Settleable Solids
pH	Flowrate
COD	Nitrate-Nitrogen
EPA 601/602	Acetone
ICAP Metals	Total Petroleum Hydrocarbons

SURFACE WATER MONITORING

Locations S-1, S-2, and S-3 will be sampled in November, January, March, and August for the following:

Turbidity	Settleable Solids
pH	Flowrate
COD	Nitrate-Nitrogen
Acetone	ICAP Metals
Total Petroleum Hydrocarbons	

In the event leachate enters a surface water conveyance system, samples will be analyzed for the constituents listed in the leachate monitoring section below.

E. LEACHATE MONITORING

The objective of leachate monitoring are to characterize leachate quality and evaluate its potential impacts on receiving waters.

The landfill shall be inspected for leachate seeps monthly during the period October through April. An inspection log shall be included in the monitoring report. The log will note, at a minimum, the date, time, flow, duration of flow, weather conditions and extent of the seep, (i.e., was it contained on-site or enter surface water drainage courses) and corrective measures employed. Regional Water Board staff will be verbally notified within 24 hours in the event of an off-site discharge. Leachate seeps will be corrected immediately upon discovery. If leachate is observed, a representative grab sample shall be taken and analyzed for the constituents listed below.

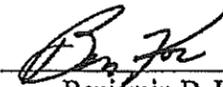
COD	BOD
General Minerals	Ph
Total Petroleum Hydrocarbons	EPA 601/602
Acetone	

F. GENERAL INSPECTIONS

The landfill shall be inspected at least monthly (During storm period the landfill shall be inspected at least once per week) during the period October through April for erosion, drainage problems, cover integrity and ponding on top of the landfill. Problem areas shall be identified and corrected immediately. A log of the inspections and corrective measures shall be submitted with the monitoring report.

The discharger shall implement this monitoring program on the date of adoption of this Order.

Order by


Benjamin D. Kor
Executive Officer

California Regional Water Quality Control Board
North Coast Region

CONTINGENCY PLANNING AND NOTIFICATION REQUIREMENTS

FOR

ACCIDENTAL SPILLS AND DISCHARGES

ORDER NO. 74-151

The California Regional Water Quality Control Board, North Coast Region, finds that:

1. Section 13225 of the Porter-Cologne Water Quality Act requires the Regional Board to perform general duties to assure positive water quality control.
2. The Regional Board has been advised of situations in which preparations for, and response to accidental discharges and spills have been inadequate.
3. Persons discharging waste or conveying, supplying, storing, or managing wastes or hazardous materials have the primary responsibility for contingency planning, incident reporting and continuous and diligent action to abate the effects of such unintentional or accidental discharge.

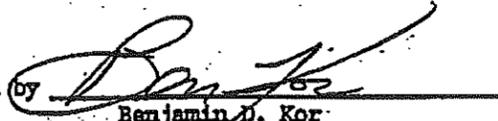
THEREFORE, IT IS HEREBY ORDERED THAT:

I. All persons who discharge wastes or convey, supply, store, or otherwise manage wastes or other hazardous material shall:

- A. Prepare and submit to this Regional Board, according to a time schedule prescribed by the Executive Officer, a contingency plan defining the following:
 1. Potential locations and/or circumstances under which accidental discharge incidents might be expected to occur,
 2. Possible water quality effects of accidental discharges,
 3. The conceptual plan for cleanup and abatement of accidental discharge incidents, including:
 - a. The individual who will be in charge of cleanup and abatement activities on behalf of the discharger,
 - b. The equipment and manpower available to the discharger to implement the cleanup and abatement plans,
- B. Immediately report to the Regional Board any accidental discharge incidents. Such notification shall be made by telephone as soon as the responsible person or his agent has knowledge of the incident.
- C. Immediately begin diligent and continuous action to cleanup and abate the effects of any unintentional or accidental discharge. Such action shall include temporary measures to abate the discharge prior to completing permanent repairs to damaged facilities.

- D. Confirm the telephone notification in writing within two weeks of the telephone notification. The written notification shall include: reasons for the discharge, duration and volume of the discharge, steps taken to correct the problem and steps being taken to prevent the problem from recurring.
- II. Upon original receipt of phone report (I.B.), the Executive Officer shall immediately notify all affected agencies and known users of waters affected by the unintentional or accidental discharge.
- III. Provide updated information to the Regional Board in the event of change of staff, size of the facility, or change of operating procedures which will affect the previously established contingency plan.
- IV. The Executive Officer or his employees shall maintain liaison with the discharger and other affected agencies and persons to provide assistance in cleanup and abatement activities.
- V. The Executive Officer shall transmit copies of this Order to all persons whose discharges of waste handling activities are governed by Waste Discharge Requirements or an NDPES permit. Such transmittal shall include a current listing of telephone numbers of the Executive Officer and his key employees to facilitate compliance with Item I.B of this Order.

Ordered by


Benjamin D. Kor
Executive Officer

July 24, 1974
(Retyped February 15, 1990)

Your primary notification should be to the Regional Board office in Santa Rosa at (707) 576-2220. During off hours, you will be able to leave a recorded message at that number and, if you have a spill or discharge emergency, you will also be referred to the State Office of Emergency Services (OES) at (800) 852-7550. OES maintains a roster of key employees and will relay your notification to Regional Board staff.

California Regional Water Quality Control Board
North Coast Region

GENERAL MONITORING AND REPORTING PROVISIONS

February 3, 1971
(Retyped May 20, 1993)

GENERAL PROVISIONS FOR SAMPLING AND ANALYSIS

Unless otherwise noted, all sampling, sample preservation, and analyses shall be conducted in accordance with the current edition of "Standard Methods for the Examination of Water and Waste Water" or approved by the Executive Officer.

All analyses shall be performed in a laboratory certified to perform such analyses by the California State Department of Health or a laboratory approved by the Executive Officer.

All samples shall be representative of the waste discharge under the conditions of peak load.

GENERAL PROVISIONS FOR REPORTING

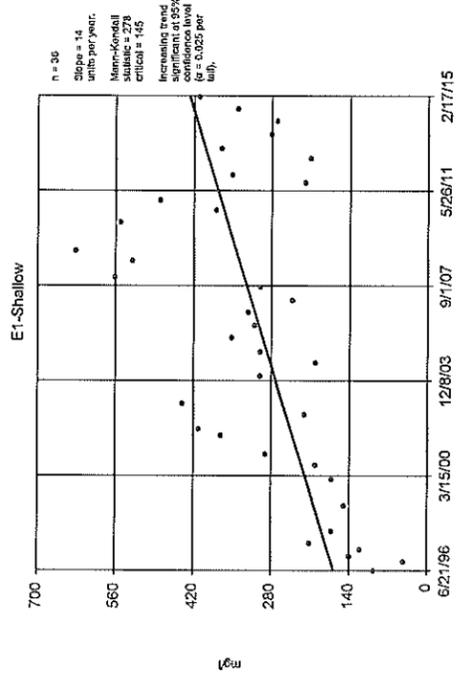
For every item where the requirements are not met, the discharger shall submit a statement of the actions undertaken or proposed which will bring the discharge in full compliance with requirements at the earliest time and submit a timetable for correction.

By January 30 of each year, the discharger shall submit an annual report to the Regional Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year. In addition, the discharger shall discuss the compliance record and the corrective actions taken or planned which may be needed to bring the discharge into full compliance with the waste discharge requirements.

The discharger shall file a written report within 90 days after the average dry weather flow for any month that equals or exceeds 75 percent of the design capacity of the waste treatment or disposal facilities. The report shall contain a schedule for studies, design, and other steps needed to provide additional capacity or limit the flow below the design capacity prior to the time when the waste flow rate equals the capacity of the present units.

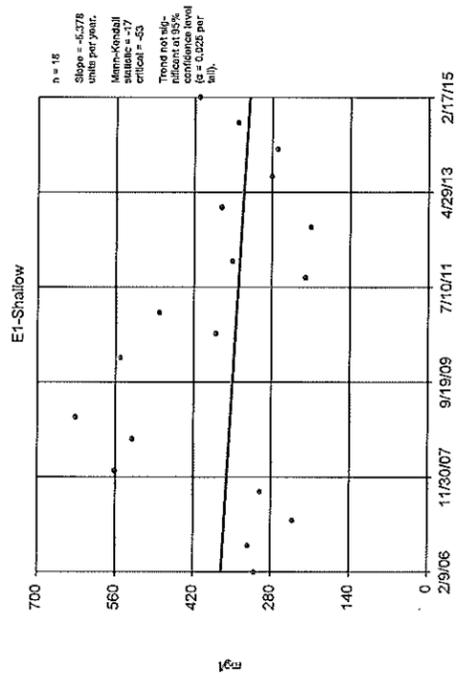
ATTACHMENT B
STATISTICAL ANALYSIS SHEETS

Sen's Slope Estimator



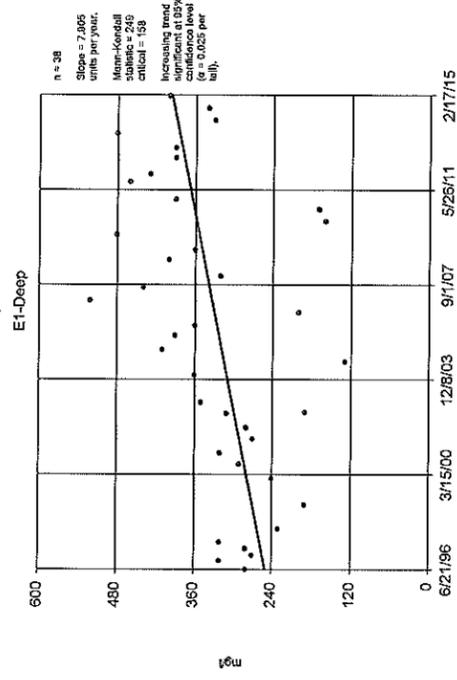
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Sen's Slope Estimator



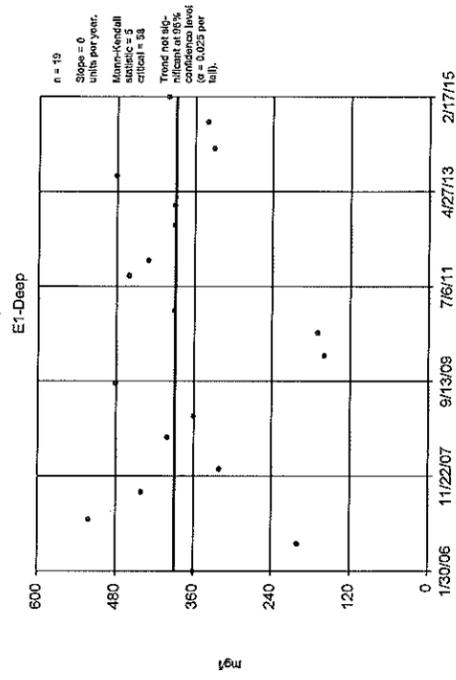
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Sen's Slope Estimator



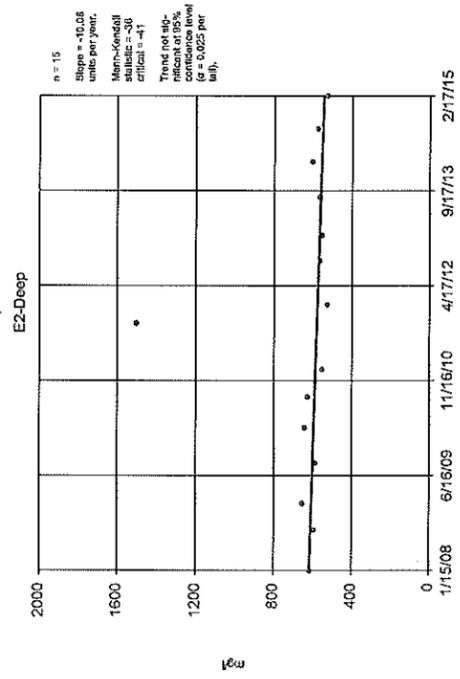
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Sen's Slope Estimator



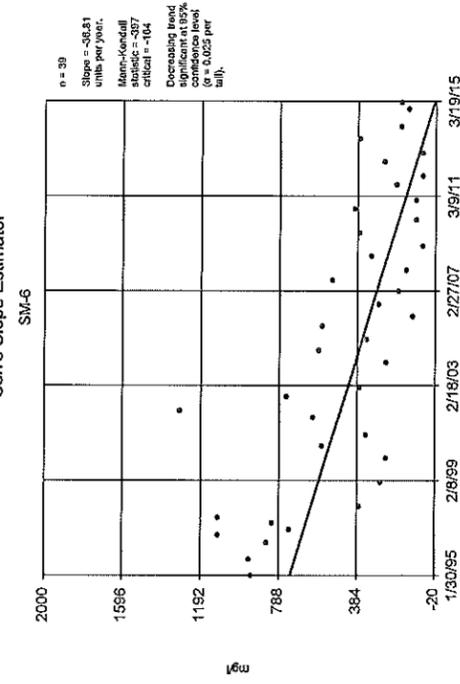
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Sen's Slope Estimator



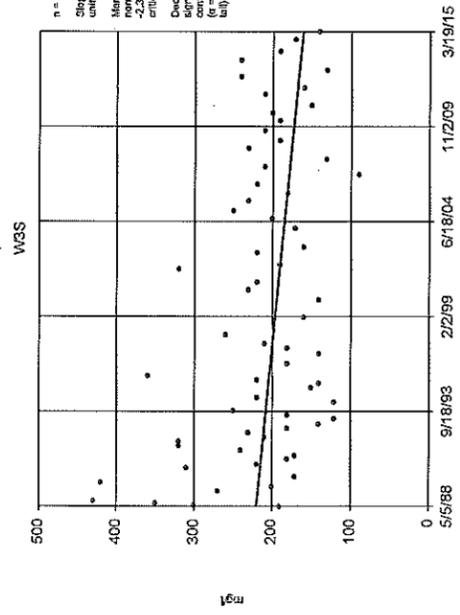
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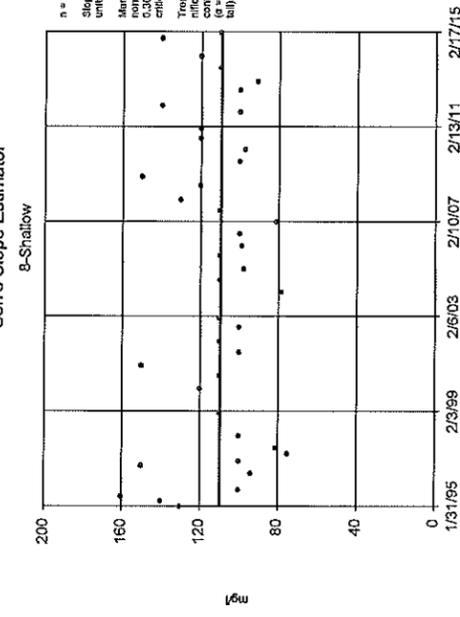
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Sen's Slope Estimator



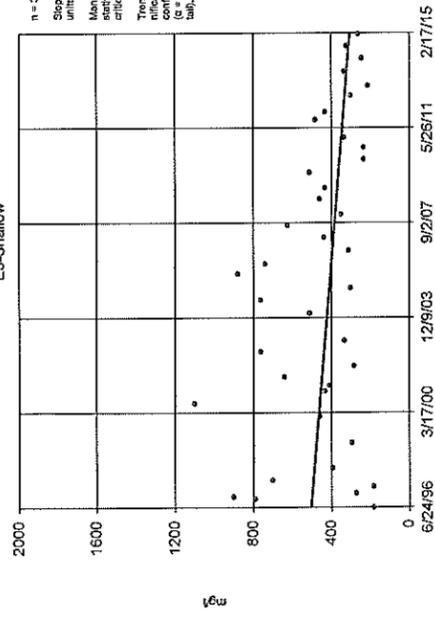
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Sen's Slope Estimator



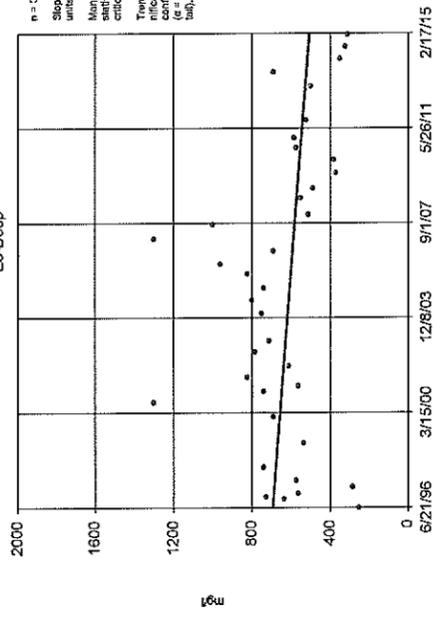
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Sen's Slope Estimator
E3-Shallow



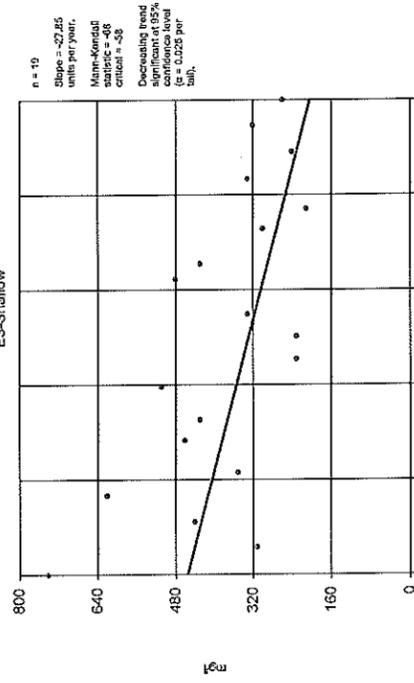
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Sen's Slope Estimator
E3-Deep



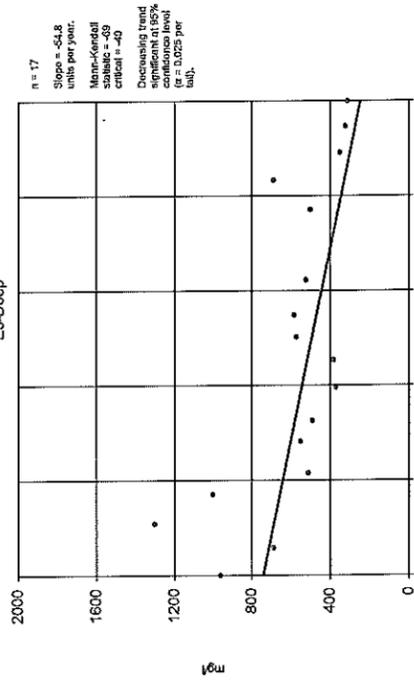
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Sen's Slope Estimator
E3-Shallow



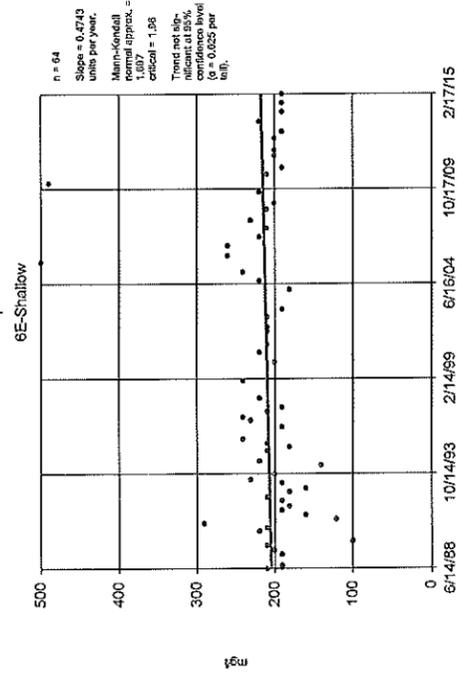
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Sen's Slope Estimator
E3-Deep



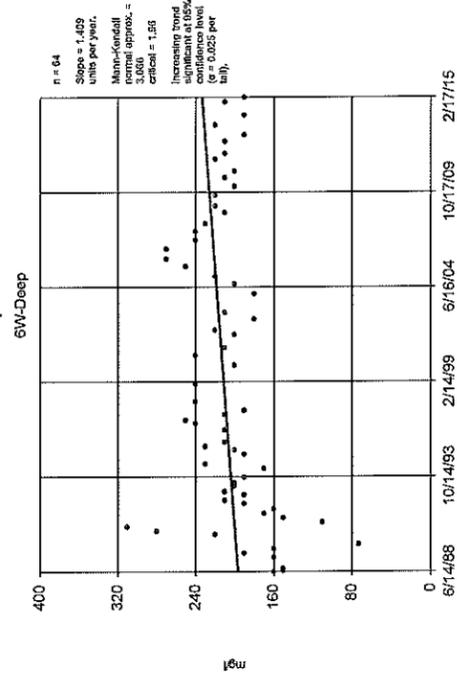
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Sen's Slope Estimator



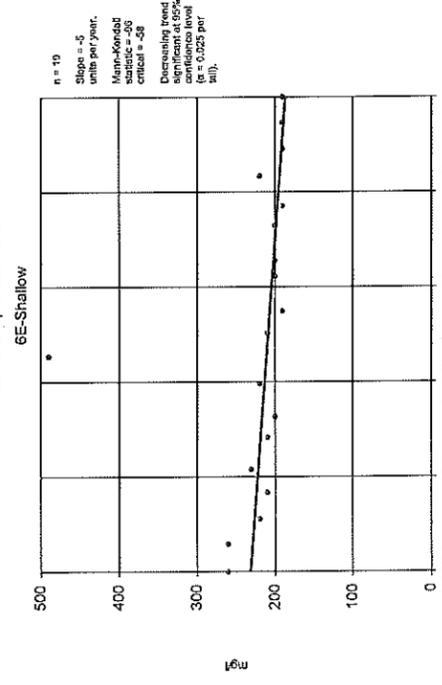
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Sen's Slope Estimator



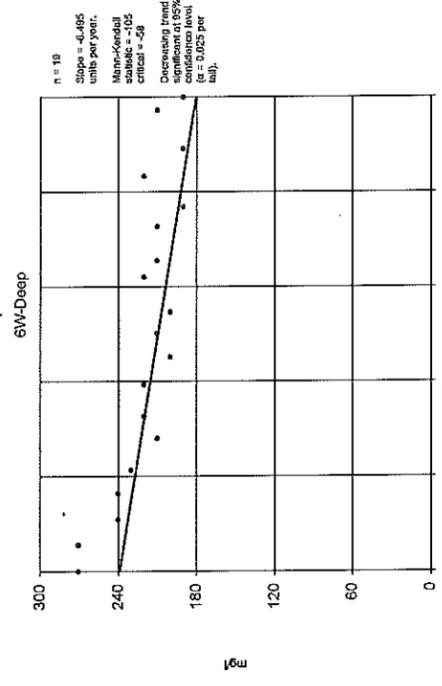
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Sen's Slope Estimator

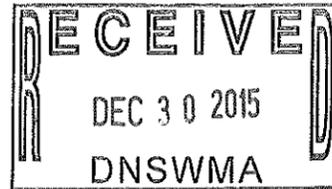


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Facility: Crescent City Landfill Data File: CCLF_Stats

Sen's Slope Estimator



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Facility: Crescent City Landfill Data File: CCLF_Stats



December 23, 2015

Tedd Ward, Director
Del Norte Solid Waste Management Authority
1700 State Street
Crescent City, CA 95531

Dear Mr. Ward:

On behalf of Recology and our subsidiary, Recology Del Norte, I am pleased to announce the promotion of Jeremy Herber as the new General Manager of Recology Del Norte. Jeremy has been providing day-to-day oversight of employees, collection routes, and shop maintenance operations since coming to Recology in September of 2014. Jeremy was hired as the Operations Supervisor, and then promoted to Operations Manager in March of this year.

As the new General Manager, Jeremy looks forward to continuing with his employee stewardship and commitment to our customers in Crescent City and Del Norte County.

Sincerely,

A handwritten signature in cursive script that reads 'Ed Farewell'.

Ed Farewell
Vice President and Group Manager
Recology

3.1



Del Norte Solid Waste Management Authority

1700 State Street, Crescent City, CA 95531

Phone (707) 465-1100 Fax (707) 465-1300

www.recycledelnorte.ca.gov

The Authority's mission is the management of Del Norte County solid waste and recyclable material in an environmentally sound, cost effective, efficient and safe manner while ensuring 100% regulatory compliance with law.

Staff Report

Date: 13 January 2016
To: Commissioners of the Del Norte Solid Waste Management Authority
From: Tedd Ward, M.S. – Director *Tedd*
Del Norte Solid Waste Management Authority
File Number: 012104 – Authority Officers
Topic: Elections of Authority Chair

Summary / Recommendation: That the Board nominate and elect an Authority Chair to serve during calendar year 2016. Staff are recommending the election of a Chair to clarify which Commissioner should be consulted regarding the setting of the Authority agenda for the next regular Authority meeting scheduled for 16 February 2016.

Background: Under Section 2 of the Authority's By-laws, the Authority Board of Commissioners is to elect officers annually to serve one-year terms. Authority officers include the following:

Chair: Presides at all meetings of the Governing Board and shall sign all contracts and other instruments for and on behalf of the Authority.

Vice-Chair: Performs all duties of the Chair in the absence or incapacity of the Chair, and in case of the resignation of other officieal and final removal of the Chair, the Vice-Chair shall perform such duties as are imposed on the Chair until the Authority shall elect a new Chair. Traditionally, the Chair and Vice-Chair have been from different member agencies, with the Vice-Chair being elected as Chair following one year of service as Vice-Chair. This tradition, however, is not a requirement under the adopted Bylaws.

Secretary: The Commissioner who serves as Secretary signs all minutes and other documents reporting and acknowledging specific votes of the Authority Commissioners, including Resolutions and Ordinances.

5.1

Treasurer / Controller: This non-voting officer is elected by the Authority Board of Commissioners. Under the adopted By-Laws, The Authority's Treasurer/ Controller shall be a Certified Public Accountant, and shall perform all duties specified in Government Code 6505.5, providing financial oversight, advisory and review services including advice regarding fiscal controls, and audits of Authority funds as required by law.

Analysis: Under section 2.2 of the Authority By-laws, the Chair and Vice-Chair "... shall be elected by the Governing Board from the Authority Commissioners appointed by the Charter Members..." meaning that the Chair and Vice Chair must also be members of the City Council or Board of Supervisors. Staff work with the Chair and Vice-Chair to set the agenda for each Authority meeting, and staff would like to continue working with an appropriately elected chair to set the agenda for upcoming Authority meetings. As the Authority Board currently consists of just three members, staff work with the Chair, or the Vice Chair if the Chair is not available, to set the agenda for each meeting. Until there are at least four Commissioners of the Authority Board, to comply with California's Open Meeting laws including the Brown Act, staff can discuss agenda items with only one Commissioner prior to each meeting.

Commissioner McClure was elected as Vice Chair in 2015. The former Authority Chair Rick Holley was not re-appointed to the Authority Board, so staff worked with Commissioner McClure to draft the agenda for this meeting. While other Authority officers may be elected after the County completes their appointments to the Authority Board of Commissioners, staff would prefer to have at least one Authority Officer available to review and approve the agenda for the next meeting.

The adopted By-laws also includes these sections pertaining to election of officers:

"Section 2.9: Election of Officers. *The Chair, Vice-Chair, and Secretary shall be elected annually from among the members of the Authority Governing Board, and shall hold office for one year or until their successors are elected and appointed. These Authority offices may only be held by current Authority Commissioners. All Officers shall serve at the pleasure of the Governing Board of the Authority and may be removed by a majority vote of the Authority Governing Board.*

Section 2.10: Vacancies. *Should the office of Chair or Vice-Chair or Secretary become vacant, the Governing Board shall elect a successor from the members of the Governing Board at the next regular meeting, and such election shall be for the unexpired term of said office or until a successor is otherwise elected by the Governing Board of the Authority to replace such officer."*

Vendor Patel & Associates, LLP
266 17th ST STE 200

Claim ID: 7514
Page 1 of 1

AUDITOR COPY



Oakland CA 94612-4124

Special
Warrant
Routing

Vendor ID:
 PBSP Expense
 Change of Address

Fund	Dept	Line	Proj	Amount	Description
422	421	20233		\$7,350.00	INV 9064 Audit for 2014/2015 Fiscal Year

Total Claim: \$7,350.00

I HEREBY CERTIFY THE ARTICLES OR SERVICES DESCRIBED ON THE ATTACHED INVOICES WERE NECESSARY FOR USE BY THE DEPARTMENT, AND HAVE BEEN RECEIVED, AND THAT NO PRIOR CLAIM FOR SAME HAS BEEN

X

Signature of Department Head/Authorized Deputy

1/7/2016

Claim Date

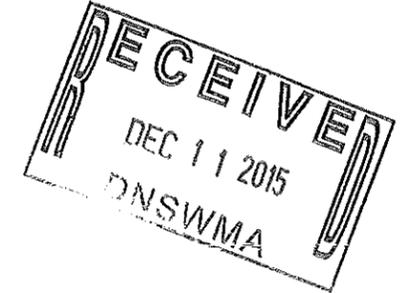
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20027 / 90233
 266 17TH ST STE 200
 OAKLAND, CA 94612-4124

Invoice

Tel: (510) 452-5051
 Fax: (510) 452-3432
 email: rpatel@patelepa.com

To:
 Del Norte Solid Waste
 Management Authority
 1700 State Street
 Crescent City, CA 95531



Date	Invoice #
12/8/2015	9064

Due Date
 12/8/2015

Service Description	Amount
Fee for Audit W.I.P. of Del Norte Solid Waste Management Authority for the financial year ended June 30, 2015	5,815.09
Out of Pocket Expenses	1,534.91
Total Invoice Amount	\$7,350.00

**DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
ANNUAL FINANCIAL REPORT
JUNE 30, 2015**

**Patel & Associates, LLP
Certified Public Accountants
266 17th Street, Suite 200
Oakland, California 94612
Telephone : (510) 452-5051
Fax : (510) 452-3432**

INTRODUCTORY SECTION

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY

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DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY

OFFICIAL ROSTER
JUNE 30, 2015

<u>Name</u>	<u>Title</u>
Roger Gitlin	Commissioner
Richard Holley	Commissioner
Ron Gastineau	Commissioner
Martha McClure	Commissioner
Angela Gore	Commissioner

FINANCIAL SECTION

INDEPENDENT AUDITOR'S REPORT

The Board of Commissioners
Del Norte Solid Waste Management Authority
Crescent City, California

Report on the Financial Statements

We have audited the accompanying financial statements of the proprietary fund of Del Norte Solid Waste Management Authority, Crescent City, California (Authority), as of and for the year ended June 30, 2015, and the related notes to the financial statements, which collectively comprise the Authority's basic financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express opinions on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in Government Auditing Standards, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Opinions

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the proprietary fund of the Authority as of June 30, 2015, and the changes in financial position and, cash flows thereof for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the Schedule of Funding Progress as listed in the table of contents be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Management has omitted the Management's Discussion and Analysis that accounting principles generally accepted in the United States of America require to be presented to supplement the basic financial statements. Such missing information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic or historical context. Our opinion on the basic financial statements is not affected by this missing information.

Other Information

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the Authority's basic financial statements. The introductory section is presented for purposes of additional analysis and is not a required part of the basic financial statements.

The introductory section has not been subjected to the auditing procedures applied in the audit of the basic financial statements, and accordingly, we do not express an opinion or provide any assurance on it.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated December 17, 2015 on our consideration of the Authority's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Authority's internal control over financial reporting and compliance.

Patel & Associates, LLP
Certified Public Accountants



Oakland, California
December 17, 2015

BASIC FINANCIAL STATEMENTS

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY

STATEMENT OF NET POSITION

JUNE 30, 2015

ASSETS

Current Assets:	
Cash and investments	\$ 765,628
Receivables:	
Accounts	211,781
Deposit with Del Norte County	<u>198,177</u>
Total Current Assets	<u>1,175,586</u>
Non Current Assets:	
Capital assets:	
Non-depreciable	493,000
Depreciable, net	<u>2,471,993</u>
Total Noncurrent Assets	<u>2,964,993</u>
Total Assets	<u>4,140,579</u>

LIABILITIES AND NET POSITION

LIABILITIES

Current Liabilities:	
Accounts payable	391,599
Compensated absences	45,281
Sublease payable	105,291
Deferred Revenue	<u>31,453</u>
Total Current Liabilities	<u>573,624</u>
Noncurrent Liabilities	
Sublease payable	2,622,000
Postclosure	2,180,935
NET OPEB obligation	<u>273,578</u>
Total Noncurrent Liabilities	<u>5,076,513</u>
Total Liabilities	<u>5,650,137</u>

NET POSITION

Net Investment in capital assets	237,702
Unrestricted	<u>(1,747,260)</u>
Total Net Position	<u>(1,509,558)</u>
Total Liabilities and Net Position	<u>\$ 4,140,579</u>

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
 STATEMENT OF REVENUES, EXPENDITURES AND CHANGES IN FUND BALANCE
 FOR THE YEAR ENDED JUNE 30, 2015

OPERATING REVENUES:	<u>Solid Waste</u>
Charges for services	\$ 2,764,633
Other revenue	<u>10,477</u>
<i>Total Operating Revenues</i>	<u>2,775,110</u>
OPERATING EXPENSES:	
Salaries and benefits	477,093
Professional services	95,044
Printing	14
Postage	1,348
Advertising	7,278
Travel	7,474
Office supplies	13,174
Insurance	18,440
Special department expense	11,084
Telephone and utilities	3,108
Maintenance and repairs	6,473
Subscriptions and memberships	2,414
Rent	4,289
Hazardous waste clean-up	32,053
Transfer station fees	1,858,362
State fees	92,763
Waste collection fees	28,089
Other expenses	30,423
Depreciation	<u>96,409</u>
<i>Total Operating Expenses</i>	<u>2,785,332</u>
Operating Income (Loss)	<u>(10,222)</u>
NON-OPERATING REVENUES (EXPENSES):	
Franchise fees	<u>244,050</u>
Interest expense	<u>(100,725)</u>
<i>Total Non-Operating Revenues (Expenses)</i>	<u>143,325</u>
Change in Net Position	133,103
Total Net Position - Beginning	<u>(1,642,661)</u>
Total Net Position - Ending	<u>\$ (1,509,558)</u>

The accompanying notes are an integral part of these financial statements

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY

STATEMENT OF CASH FLOWS

JUNE 30, 2015

CASH FLOWS FROM OPERATING ACTIVITIES:

Receipts from customers	\$ 2,774,304
Payment to suppliers	(2,123,219)
Payments to employees	<u>(488,142)</u>
<i>Net Cash Provided (Used) by Operating Activities</i>	<u>162,943</u>

CASH FLOWS FROM NONCAPITAL FINANCING ACTIVITIES:

Grants and other receipts	15,075
Franchise fees	<u>244,050</u>
<i>Net Cash Provided (Used) by Noncapital Financing Activities</i>	<u>259,125</u>

CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES

Principal paid on debt	<u>(101,908)</u>
Interest paid on debt	<u>(100,725)</u>
<i>Net Cash Provided (Used) by Capital and Related Financing Activities</i>	<u>(202,633)</u>

CASH FLOWS FROM INVESTING ACTIVITIES

<i>Net Cash Provided (Used) by Investing Activities</i>	<u> </u>
---	---------------------------

Net Increase (Decrease) in Cash and Cash Equivalents	<u>219,435</u>
Balances - Beginning	<u>546,193</u>
Balances - Ending	<u>\$ 765,628</u>

RECONCILIATION OF OPERATING INCOME (LOSS) TO NET CASH PROVIDED (USED) BY OPERATING ACTIVITIES

Operating income (loss)	\$ (10,222)
Adjustments to reconcile operating income to net cash provided by operating activities:	
Depreciation	96,409
Decrease (increase) in:	
Accounts receivable	(806)
Interest (decrease) in:	
Accounts payable	46,155
Salaries and benefits payable	(16,999)
Compensated absences	5,950
Deferred Revenue	31,453
Postclosure	<u>(65,438)</u>
Net OPEB obligation	<u>76,441</u>
Net Cash Provided (Used) by Operating Activities	<u>\$ 162,943</u>

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY

NOTES TO FINANCIAL STATEMENTS

JUNE 30, 2015

NOTE 1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The basic financial statements of Del Norte Solid Waste Management Authority (Authority) have been prepared in conformity with generally accepted accounting principles (GAAP) as applied to governmental agencies. The Governmental Accounting Standards Board (GASB) is the accepted standard setting body for establishing governmental accounting and financial reporting principles. The more significant of the Authority's accounting policies are described below.

A. Reporting Entity

The Del Norte Solid Waste Management Authority (Authority) was formed September 21, 1992, and is a Joint Powers Authority between the County of Del Norte and the City of Crescent City.

The purpose of the Authority is to administer the siting, development, construction, and operation of solid waste facilities for the collection, reduction, recycling, composting, and disposal of discards generated within the City's and County's territorial boundaries. Under the terms of the Joint Powers Agreement, either the County or the City may withdraw and thereby dissolve the Authority. The County and City then would each reassume their respective responsibilities for waste management matters.

Generally accepted accounting principles require government financial statements to include the primary government and its component units. Component units of a governmental entity are legally separate entities for which the primary government is considered to be financially accountable and for which the nature and significance of their relationship with the primary government are such that exclusion would cause the combined financial statements to be misleading. The primary government is considered to be financially accountable if it appoints a majority of an organization's governing body and is able to impose its will on that organization or there is a potential for the organization to provide specific financial benefits to or impose specific financial burdens on the primary government.

Component Units

Based on the application of the criteria set forth by the Governmental Accounting Standards Board, management has determined that there are no component units of the Authority.

Related Organizations

The County of Del Norte appoints two members to the Board of Commissioners and performs certain accounting functions for the Authority. However, the County is not financially accountable for this organization and therefore it is not a component unit under Statement Nos. 14, 39, and 61 of the Governmental Accounting Standards Board.

B. Basis of Presentation

Fund financial statements of the Authority are organized into one fund, which is considered to be a separate accounting entity. The fund is accounted for by providing a separate set of self-balancing accounts that constitute its assets, liabilities, net position, revenues, and expenses. The fund of the Authority is organized into the proprietary category and is treated as a major fund.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY

NOTES TO FINANCIAL STATEMENTS

JUNE 30, 2015

NOTE 1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES - (CONTINUED)

B. Basis of Presentation - (Continued)

The Authority reports the following major proprietary fund:

- The Solid Waste Fund is an enterprise fund used to account for solid waste management, transfer station operations, and landfill postclosure.

C. Basis of Accounting and Measurement Focus

The proprietary fund financial statements are reported using the economic resources measurement focus and the accrual basis of accounting. Revenues are recorded when earned and expenses are recorded at the time liabilities are incurred, regardless of when the related cash flows take place. Nonexchange transactions, in which the Authority gives (or receives) value without directly receiving (or giving) equal value in exchange, include revenues from grants, entitlements, and donations. Revenues from grants, entitlements, and donations are recognized in the fiscal year in which all eligibility requirements have been satisfied.

Proprietary funds distinguish operating revenues and expenses from non-operating items. Operating revenues and expenses generally result from providing services and producing and delivering goods in connection with a proprietary fund's principal ongoing operations. The principal operating revenues of enterprise funds are charges to customers for services. Operating expenses for enterprise funds include the cost of sales and services, administrative expenses, and depreciation of capital assets. All revenues and expenses not meeting this definition are reported as non-operating revenues and expenses.

D. Cash, Cash Equivalents, and Investments

The Authority pools all cash and investments, other than imprest cash, with the County of Del Norte. The Del Norte County Treasury is an external investment pool for the Authority and the Authority is considered an involuntary participant. The Authority's share in the pool is displayed in the accompanying financial statements as cash and investments.

Participant's equity in the investment pool is determined by the dollar amount of participants deposits, adjusted for withdrawals and distributed investment income. Investment income is determined on the amortized cost basis. Amortized premiums and accreted discounts, accrued interest, and realized gains and losses, net of expenses, are apportioned to pool participants each quarter based on the participant's average daily cash balance at quarter end in relation to the total pool investments. This method differs from the fair value method used to value investments in these financial statements. In these financial statements, the fair value of the Authority's investments in the pool was based on unaudited quoted market values as provided by the County Treasurer. The pool has not provided or obtained any legally binding guarantees during the period to support the value of the investments.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY

NOTES TO FINANCIAL STATEMENTS

JUNE 30, 2015

NOTE 1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES - (CONTINUED)

D. Cash, Cash Equivalents, and Investments - (Continued)

The County has established a Treasury Oversight Committee to monitor and review the management of public funds maintained in the investment pool in accordance with the County investment policy and the California Government Code. The oversight committee and the Board of Supervisors review and approve the investment policy annually. The County Treasurer prepares and submits a comprehensive investment report to the members of the oversight committee and the Board of Supervisors every month. The report covers the type of investments in the pool, maturity dates, par value, actual cost, and fair value.

Required disclosure information regarding categorization of investments and other deposit and investment risk disclosures can be found in the County's financial statements. The County of Del Norte's financial statements may be obtained by contacting the County of Del Norte Auditor Controller's office at 981 H Street, Suite 140, Crescent City, CA 95531.

For purposes of the accompanying statement of cash flows, the Authority considers all highly liquid investments with a maturity of three months or less when purchased, and their equity in the County of Del Norte investment pool, to be cash equivalents.

E. Receivables

Receivables consist mostly of amounts due from customers for services and amounts due from grant activities. These amounts are not shown net of an allowance for doubtful accounts. Any doubtful accounts at June 30, 2015 were not considered material and therefore were not recorded.

F. Other Assets

Inventory

Inventory items are recorded as an expense at the time individual items are purchased rather than when consumed. Records are not maintained of inventory and supplies on hand, however, these amounts are not considered material.

Deposit with Del Norte County

The County of Del Norte holds a deposit of \$198,177 for the final sublease payment.

G. Capital Assets

Capital assets, which include property, plant, and equipment, are defined by the Authority as an asset with an individual cost of more than \$2,000 and an estimated useful life in excess of one year. Capital assets are valued at historical cost or estimated historical cost if actual historical cost is unavailable. Donated capital assets are valued at their estimated fair market value at the date of donation. Major outlays for capital assets and improvements are capitalized as projects are constructed. Interest incurred during the construction phase is not included as part of the capitalized value.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY

NOTES TO FINANCIAL STATEMENTS

JUNE 30, 2015

NOTE 1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES - (CONTINUED)

G. Capital Assets - (Continued)

Capital assets used in operations are depreciated or amortized using the straight-line method over the assets estimated useful life. The range of estimated useful lives by type of asset is as follows:

<u>Depreciable Assets</u>	<u>Estimated Lives</u>
Equipment	5-20 years
Structures and improvements	10-20 years

Maintenance and repairs are charged to operations when incurred. Betterments and major improvements which significantly increase values, change capacities or extend useful lives are capitalized. Upon sale or retirement of capital assets, the cost and related accumulated depreciation are removed from the respective accounts and any resulting gain or loss is included in the results of operations.

H. Compensated Absences

It is the Authority's policy to permit employees to accumulate a limited amount of earned but unused vacation and sick leave which vests with the employee and will be paid upon separation from Authority service. The liability for these compensated absences is recorded as long-term debt in the financial statements. The current portion of this debt is estimated based on historical trends. In the fund financial statements, proprietary funds report the liability as it is incurred. The Authority includes its share of social security and medicare taxes payable on behalf of the employees in the accrual for compensated absences.

I. Deferred Outflows/Inflows of Resources

In addition to assets, the statement of financial position will sometimes report a separate section for deferred outflows of resources. This separate financial statement element, deferred outflows of resources, represents a consumption of net position that applies to a future period and so will not be recognized as an outflow of resources (expense) until then. At June 30, 2015, the Authority did not have any deferred outflows of resources.

In addition to liabilities, the statement of financial position will sometimes report a separate section for deferred inflows of resources. This separate financial statement element, deferred inflows of resources, represents an acquisition of net position that applies to a future period and so will not be recognized as an inflow of resources (revenue) until that time. At June 30, 2015, the Authority did not have any deferred inflows of resources.

J. Estimates

The preparation of basic financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect certain reported amounts and disclosures. Accordingly, actual results could differ from those estimates.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY

NOTES TO FINANCIAL STATEMENTS

JUNE 30, 2015

NOTE 2. STEWARDSHIP, COMPLIANCE, AND ACCOUNTABILITY

A. Deficit Net Position

The Solid Waste fund had a net position deficit of \$1,509,558, caused by the postclosure liability. This liability is expected to be eliminated in future years through possible surcharges to future landfill users.

NOTE 3. CASH AND INVESTMENTS

A. Financial Statement Presentation

As of June 30, 2015, the Authority's cash and investments consisted of the following:

Cash:

Cash on hand	\$ <u>3,500</u>
Total Cash	<u>3,500</u>

Investments:

Del Norte County Treasurer's Pool	<u>762,128</u>
Total Investments	<u>762,128</u>
Total Cash and Investments	<u>\$ 765,628</u>

B. Cash

Custodial Credit Risk for Deposits - Custodial credit risk for deposits is the risk that, in the event of the failure of a depository financial institution, a government will not be able to recover its deposits or collateral securities that are in the possession of an outside party. The Authority and the County comply with the requirements of the California Government Code. Under this code, deposits of more than \$250,000 must be collateralized at 105 percent to 150 percent of the value of the deposit to guarantee the safety of the public funds.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY

NOTES TO FINANCIAL STATEMENTS

JUNE 30, 2015

NOTE 3. CASH AND INVESTMENTS - (CONTINUED)

C. Investments

The Authority does not have a formal investment policy. At June 30, 2015, all investments of the Authority were in the County of Del Norte investment pool. Under the provisions of the County's investment policy and the California Government Code, the County may invest or deposit in the following:

- Banker's Acceptances
- Commercial Paper
- Local Agency Investment Fund
- Medium Term Corporate Notes
- Money Market Funds
- Negotiable Certificates of Deposit
- Repurchase Agreements
- Securities of the Federal Government or its Agencies
- California State Registered Warrants, Treasury Notes and Bonds
- Local Agency Obligations
- Certificates of Deposit
- Pass-Through Security

Interest Rate Risk - Interest rate risk is the risk of loss due to the fair value of an investment falling due to interest rates rising. Generally, the longer the maturity of an investment, the greater the sensitivity of its fair value to changes in market interest rates. To limit exposure to fair value losses resulting from increases in interest rates, the County's investment policy limits investment maturities to a term appropriate to the need for funds so as to permit the County to meet all projected obligations. The County limits its exposure to interest rate risk inherent in its portfolio by limiting individual maturities to 5 years or less.

Credit Risk - Credit risk is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. This is measured by the assignment of a rating by a nationally recognized statistical rating organization. The County's investment policy sets specific parameters by type of investment to be met at the time of purchase. As of June 30, 2015, the Authority's investments were all pooled with the County Treasury investment pool which is not rated by a nationally recognized statistical rating organization.

Custodial Credit Risk for Investments - Custodial credit risk for investments is the risk that, in the event of the failure of a depository financial institution, the Authority will not be able to recover its deposits or collateral securities that are in the possession of an outside party. With respect to investments, custodial credit risk generally applies only to direct investments in marketable securities. Custodial credit risk does not apply to a local government's indirect investments in securities through the use of mutual funds or government investment pools.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY

NOTES TO FINANCIAL STATEMENTS

JUNE 30, 2015

NOTE 3. CASH AND INVESTMENTS - (CONTINUED)

Concentration of Credit Risk - Concentration of credit risk is the risk of loss attributed to the magnitude of the Authority's investment in a single issuer of securities. When investments are concentrated in one issuer, this concentration presents a heightened risk of potential loss. The County's investment policy of the County contain limitations on the amount that can be invested in any one issuer. As of June 30, 2015, all investments of the Authority were in the County investment pool which contains a diversification of investments.

NOTE 4. CAPITAL ASSETS

Capital assets activity for the year ended June 30, 2015 was as follows:

	Balance July 1, 2014	Additions	Deletions	Balance at June 30, 2015
Capital Assets, Not Being Depreciated:				
Land	\$ 493,000	\$ _____	\$ _____	\$ 493,000
Total Capital Assets, Not Being Depreciated:	<u>493,000</u>	<u> </u>	<u> </u>	<u>493,000</u>
Capital Assets, Being Depreciated				
Equipment	158,444			158,444
Structures and Improvements	<u>3,408,629</u>			<u>3,408,629</u>
Total Capital Assets, Being Depreciated	<u>3,567,073</u>			<u>3,567,073</u>
Less Accumulated Depreciation For:				
Equipment	(155,594)	(1,905)		(157,499)
Structures and Improvements	<u>(843,077)</u>	<u>(94,504)</u>		<u>(937,581)</u>
Total Accumulated Depreciation	<u>(998,671)</u>	<u>(96,409)</u>		<u>(1,095,080)</u>
Total Capital Assets, Being Depreciated, Net	<u>2,568,402</u>	<u>(96,409)</u>		<u>2,471,993</u>
Capital Assets, Net	<u>\$3,061,402</u>	<u>\$ (96,409)</u>	<u>\$ _____</u>	<u>\$ 2,964,993</u>

Depreciation expense of \$96,409 was charged to operations.

NOTE 5. LONG-TERM LIABILITIES

The following is a summary of changes in long-term liabilities for the year ended June 30, 2015:

	Balance July 1, 2014	Additions/ Adjustments	Retirements/ Adjustments	Balance June 30, 2015	Amounts Due Within One Year
Compensated Absences	\$ 39,331	\$ 25,127	\$ (19,177)	\$ 45,281	\$ 45,281
Sublease Payable	2,829,199		(101,908)	2,727,291	105,291
Postclosure	2,246,373		(65,438)	2,180,935	
Net OPEB Obligation	<u>197,137</u>	<u>95,664</u>	<u>(19,223)</u>	<u>273,578</u>	
Total Long Term Liabilities	<u>\$ 5,312,040</u>	<u>\$ 120,791</u>	<u>\$ (205,746)</u>	<u>\$ 5,227,085</u>	<u>\$ 150,572</u>

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY

NOTES TO FINANCIAL STATEMENTS

JUNE 30, 2015

NOTE 5. LONG TERM LIABILITIES - (CONTINUED)

Individual issues of debt payable outstanding at June 30, 2015, are as follows:

Sublease Payable:

County of Del Norte Facility Sublease issued May 1, 2004 in the amount of \$3,535,000, due in annual installments of \$78,475 to \$183,454, with an interest rate of 3.32% and maturity of August 1, 2033. The sublease was used to finance the construction of the transfer station. \$ 2,727,291

Total Sublease Payable \$ 2,727,291

Following is a schedule of debt payment requirements of the proprietary fund, excluding compensated absences that have indefinite maturities, postclosure which is reported in Note 6 and Net OPEB obligation which is reported in Note 9.

Year Ended June 30	Sublease Payable		
	Principal	Interest	Total
2016	\$ 105,291	\$ 88,798	\$ 194,089
2017	108,787	85,245	194,032
2018	112,398	81,573	193,971
2019	116,130	77,779	193,909
2020	119,986	73,860	193,846
2021-2025	662,392	305,797	968,189
2026-2030	779,897	186,342	966,239
2031-2034	<u>722,410</u>	<u>48,947</u>	<u>771,357</u>
Total	<u><u>2,727,291</u></u>	<u><u>948,341</u></u>	<u><u>3,675,632</u></u>

NOTE 6. POSTCLOSURE

The Authority is responsible for one closed solid waste landfill site. State and federal laws and regulations require the Authority to perform certain maintenance and monitoring functions at the landfill site for thirty years after closure. GASB Statement No. 18 requires a portion of these postclosure care costs be reported as an operating expense in each period based on landfill capacity used as of each statement of net position date. Since the landfill is no longer accepting waste, the entire estimated expense and liability have been reported.

As of June 30, 2015, the Authority's estimated remaining liability for post closure maintenance costs was \$2,180,935. This amount is based on the amount that would be paid if all equipment, facilities, and services required to monitor the landfill were acquired as of June 30, 2015. Actual costs may be higher due to inflation, changes in technology, or changes in regulations.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY

NOTES TO FINANCIAL STATEMENTS

JUNE 30, 2015

NOTE 6. POSTCLOSURE - (CONTINUED)

The Authority is required by the California Code of Regulations to provide financial assurance that appropriate resources will be available to finance postclosure costs in the future. The Authority intends to fund the post-closure liability through a pledge of revenue from the new transfer station/materials recovery facility. The Authority expects that future inflation costs will be paid from interest earnings on these annual contributions. However, if interest earnings are inadequate or additional post-closure requirements are determined (due to changes in technology or applicable laws and regulations or modification in design, for example), these costs may need to be funded through surcharges to future landfill users or from future tax revenues.

NOTE 7. NET POSITION

The proprietary fund financial statements utilize a net position presentation. Net position is categorized as net investment in capital assets, restricted, and unrestricted.

- **Net investment in capital assets** - Consists of capital assets including restricted capital assets, net of accumulated depreciation and reduced by the outstanding balances of any bonds, mortgages, notes or other borrowings that are attributable to the acquisition, construction or improvement of those assets.
- **Restricted net position** - Consists of net position with constraints placed on the use either by (1) external groups such as creditors, grantors, contributors or laws or regulations of other governments; or (2) law through constitutional provisions or enabling legislation.
- **Unrestricted net position** - All other net position that does not meet the definition of "restricted" or "net investment in capital assets".

Net Position Flow Assumption

When a government funds outlays for a particular purpose from both restricted and unrestricted resources, a flow assumption must be made about the order in which the resources are considered to be applied. When both restricted and unrestricted net position is available, it is considered that restricted resources are used first, followed by the unrestricted resources.

NOTE 8. EMPLOYEE BENEFITS

A. Employee's Retirement Plan

The Authority employees are covered under the retirement plan of the County of Del Norte. The County of Del Norte bills the Authority monthly for the costs of the retirement benefits.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY

NOTES TO FINANCIAL STATEMENTS

JUNE 30, 2015

NOTE 8. EMPLOYEE BENEFITS - (CONTINUED)

The County contributes to the California Public Employees Retirement System (PERS), an agent multiple-employer public employee defined benefit plan. PERS provides retirement and disability benefits, annual cost of living adjustments, and death benefits to plan members and beneficiaries. PERS acts as a common investment and administrative agent for participating public entities within the State of California. Benefit provisions and all other requirements are established by statute. Copies of PERS' annual financial report may be obtained from their executive office – 400 Q Street, Lincoln Plaza East, Sacramento, CA 95811.

Required disclosure information regarding the total retirement plan can be found in the County's audited financial statements. Separate information regarding the Authority is not available.

NOTE 9. OTHER POSTEMPLOYMENT BENEFITS (OPEB)

A. Plan Description

The Authority provides medical and dental benefits for retired employees and their dependents through a self-insured trust administered by Del Norte County. The Authority recently made dental-only coverage available to retirees at age 65 and over. Composite premium rates as of the valuation date are as follows:

Coverage	Employee Only	Employee +1	Employee+2 or more
Medical and Dental	\$ 617	\$ 1,198	\$ 1,505
Post 65 Dental Only	60	115	165

The Authority pays partial premiums for retirees based on years of service with the Authority. For retirees under age 65 with at least 10 years of Authority service (those hired prior to 2007 need only five years of service with the Authority in order to be eligible to receive the discounted premium rates), the Authority covers between 25% and 100% of the premium for the retiree as well as between 25% and 75% of the dependent premiums. Retirees over the age of 65 also receive the benefit of a discounted premium. The following table illustrates the premiums paid by retirees as of the valuation date, with the balance of the premiums paid by the Authority:

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY

NOTES TO FINANCIAL STATEMENTS

JUNE 30, 2015

NOTE 9. OTHER POSTEMPLOYMENT BENEFITS (OPEB) - (CONTINUED)

Medical Plan Rates Charged to Retiree Effective November 1, 2009						
Age	Under 65			65 and over		
Years of Service	Retiree Only	Retiree & 1 Dep.	Retiree & Family	Retiree Only	Retiree & 1 Dep.	Retiree & Family
Less than 10 years	Cobra coverage for up to 18 months					
At least the 10 years, but less than 16	\$ 386	\$ 749	\$ 1,127	\$ 225	\$ 440	\$ 555
At least 16, but less than 21	257	560	875	200	415	530
At least 21, but less than 25	129	344	459	175	390	505
At least 25 or more		215	345	150	365	480

B. Funding Policy

As required by GASB 45, an actuary will determine the Authority's Annual Required Contributions (ARC) at least once every two fiscal years. The ARC is calculated in accordance with certain parameters, and includes (1) the Normal Cost for one year, and (2) a component for amortization of the total unfunded actuarial accrued liability (UAAL) over a period not to exceed 30 years.

In accordance with the Authority's budget, the annual required contribution (ARC) is to be funded by (a) making payments for retiree benefit premiums, (b) making payments for retiree claims and (c) prior to fiscal year end, depositing the remaining amount of the ARC, if any, to the OPEB trust. Concurrent with implementing Statement No. 45, the Authority Board of Commissioners passed a resolution to participate in the California Employers Retirees Benefit Trust (CERBT), an irrevocable trust established to fund OPEB. CERBT is administered by CalPERS, and is managed by an appointed board not under the control of the Authority. This Trust is not considered a component unit of the Authority and has been excluded from these financial statements. Separately issued financial statements for CERBT may be obtained from CALPERS at P.O. Box 942709, Sacramento, CA 94229-2709.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY

NOTES TO FINANCIAL STATEMENTS

JUNE 30, 2015

NOTE 9. OTHER POSTEMPLOYMENT BENEFITS (OPEB) - (CONTINUED)

C. Annual OPEB Cost and Net OPEB Obligation

The following table shows the components of the Authority's annual OPEB costs for the year, the amount actually contributed to the plan, and changes in the Authority's net OPEB obligation.

	Fiscal Year Ending June 30, 2015
Annual required contribution	\$ 95,903
Interest on net OPEB obligation	10,873
ARC adjustment	<u>(11,112)</u>
Annual OPEB cost	95,664
Contributions Made:	
Pay as you go contribution	8,098
Funding of ARC contribution	<u>11,125</u>
Change in net OPEB obligation	76,441
Net OPEB Obligation - Beginning of Year	<u>197,137</u>
Net OPEB Obligation - End of Year	\$ <u>273,578</u>

The Authority's Annual OPEB Cost, the percentage of Annual OPEB cost contributed to the plan, and the Net OPEB Obligation for the year ended June 30, 2015 is as follows:

Fiscal Year Ended	Annual OPEB Cost	Actual Contribution	Percentage of Annual OPEB Contributed	Net OPEB Obligation
June 30, 2012	\$ 66,734	\$ 19,634	29.42%	\$ 86,006
June 30, 2013	76,119	22,359	29.37%	139,766
June 30, 2014	81,318	18,981	23%	202,103
June 30, 2015	95,664	24,189	25%	273,578

D. Funded Status and Funding Progress

As of July 1, 2013, the most recent actuarial valuation date, the plan was 12.74 percent funded. The actuarial accrued liability for benefits was \$692,253 and the actuarial value of assets was \$88,187, resulting in an unfunded actuarial accrued liability (UAAL) of \$604,066. The covered payroll (annual payroll of employees covered by the plan) was \$197,720, and the ratio of the UAAL to the covered payroll was 313.44 percent.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY

NOTES TO FINANCIAL STATEMENTS

JUNE 30, 2015

NOTE 9. OTHER POSTEMPLOYMENT BENEFITS (OPEB) - (CONTINUED)

D. Funded Status and Funding Progress - (Continued)

Actuarial valuations of an ongoing plan involve estimates of the value of the reported amounts and assumptions about the probability of occurrence of events far into the future. Examples include assumptions about future employment, mortality, and the healthcare cost trend. Actuarial amounts determined regarding the funded status of the plan and the Annual Required Contributions of the Authority are subject to revision at least biannually as actual results are compared with past expectations and new estimates are made about the future. The Schedule of Funding Progress, presented as required supplementary information following the notes to the financial statements, presents multi-year trend information (as it becomes available) that shows whether the actuarial value of plan assets is increasing or decreasing over time relative to the actuarial accrued liabilities for benefits.

E. Actuarial Methods and Assumptions

Projections of benefits for financial reporting purposes are based on the substantive plan (the plan as understood by the employer and plan members) and include the types of benefits provided at the time of each valuation and the historical pattern of sharing of benefit costs between the employer and plan members to that point. The actuarial methods and assumptions used include techniques that are designed to reduce short term volatility in actuarial accrued liabilities and the actuarial value of assets, consistent with the long-term perspective of the calculations.

The most recent valuation was performed as of July 1, 2013. The assumptions used for this valuation are in accordance with CalPers' "OPEB Assumption Model", which describes guidelines to be used for retiree healthcare valuations for plans intending to pre-fund benefits through California Employers' Retiree Benefit Trust (CERBT).

In the July 1, 2013 actuarial valuation, the entry age normal actuarial cost method was used. The actuarial assumptions included a 7.50% investment rate of return, payroll increases of 3.25%, and assumed health inflation of 10% graded down to 5.38% over 10 years. The OPEB plan's unfunded actuarial liability is being amortized over a closed, 30-year amortization period and level percent of pay basis beginning in the 2012/13 fiscal year.

NOTE 10. RISK MANAGEMENT

The Authority is exposed to various risks of loss related to torts; theft of, damage to, and destruction of assets; errors and omissions; injuries to employees; and natural disasters. The Authority purchases coverage from a private insurance company. In addition, they participate in the County liability program. Settled claims have not exceeded this commercial coverage in any of the past three fiscal years. As of June 30, 2015, the Authority did not have landfill insurance.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY

NOTES TO FINANCIAL STATEMENTS

JUNE 30, 2015

NOTE 11. RELATED PARTY TRANSACTIONS

The Authority has related party transactions with the County of Del Norte. During the year ended June 30, 2015, the Authority paid the County \$1,600 for liability insurance and \$13,318 for health insurance. The Authority provides free dumping service to the County of Del Norte and the City of Crescent City as required in the Joint Powers Agreement.

NOTE 12. OTHER INFORMATION

A. Subsequent Events

Management has evaluated events subsequent to June 30, 2015 through December 17, 2015, the date on which the financial statements were available for issuance. Management has determined no subsequent events requiring disclosure have occurred.

REQUIRED SUPPLEMENTARY INFORMATION (UNAUDITED)

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY

**SCHEDULE OF FUNDING PROGRESS -
OTHER POSTEMPLOYMENT BENEFITS (OPEB)**

JUNE 30, 2015

The Schedule of Funding Progress - Other Postemployment Benefits (OPEB) presents a consolidated snapshot of the Authority's ability to meet current and future liabilities with the plan assets. Of particular interest to most is the funded status ratio. This ratio conveys a plan's level of assets to liabilities, an important indicator to determine the financial health of the OPEB plan. The closer the plan is to a 100% funded status, the better position it will be in to meet all of its future liabilities.

The table below shows a three year analysis of the actuarial value of assets as a percentage of the actuarial accrued liability and the unfunded actuarial accrued liability as a percentage of the annual covered payroll for the Authority Other Postemployment Benefit Plan.

<u>Actuarial Valuation Date</u>	<u>Actuarial Valuation of Assets</u>	<u>Actuarial Accrued Liability (AAL) Entry Age</u>	<u>Unfunded AAI (UAAL)</u>	<u>Funded Ratio</u>	<u>Covered Payroll</u>	<u>UAAL as a Percentage Of Covered Payroll</u>
July 1, 2010	\$ 44,752	\$ 435,051	\$ 390,299	10.14%	\$ 294,812	132.39%
July 1, 2011	58,086	528,091	470,005	10.99%	294,812	159.43%
July 1, 2013	88,187	692,253	604,066	12.74%	192,720	313.44%

COMPLIANCE SECTION

**INDEPENDENT AUDITOR'S REPORT ON INTERNAL CONTROL OVER FINANCIAL
REPORTING AND ON COMPLIANCE AND OTHER MATTERS BASED ON AN AUDIT OF
FINANCIAL STATEMENTS PERFORMED IN ACCORDANCE WITH
GOVERNMENT AUDITING STANDARDS**

The Board of Commissioners
Del Norte Solid Waste Management Authority
Crescent City, California

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the proprietary fund of the Del Norte Solid Waste Management Authority, Crescent City, California (Authority) as of and for the year ended June 30, 2015, and the related notes to the financial statements, which collectively comprise the Authority's basic financial statements and have issued our report thereon dated December 17, 2015.

Internal Control Over Financial Reporting

In planning and performing our audit of the financial statements, we considered the Authority's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the Authority's internal control. Accordingly, we do not express an opinion on the effectiveness of the Authority's internal control.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A material weakness is a deficiency, or a combination of deficiencies, in internal control such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis. A significant deficiency is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies and therefore, material weaknesses or significant deficiencies may exist that were not identified. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. We did identify certain deficiencies in internal control, described in the accompanying schedule of findings and responses that we consider as items 2015-001 and 2015-002 to be significant deficiencies.

Compliance and Other Matters

As part of obtaining reasonable assurance about whether the Authority's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

Authority's Response to Findings

The Authority's responses to the findings identified in our audit are described in the accompanying schedule of findings and responses. The Authority's responses were not subjected to the auditing procedures applied in the audit of the financial statements and, accordingly, we express no opinion on them.

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

**Patel & Associates, LLP
Certified Public Accountants**



**Oakland, California
December 17, 2015**

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
SCHEDULE OF FINDINGS AND RESPONSES
YEAR ENDED JUNE 30, 2015

SECTION II - AUDIT FINDING IN RELATION TO FINANCIAL STATEMENTS

2015-001 Deficit Net Position (Significant Deficiency)-Repeated

Condition:

The charges for services were not sufficient to cover postclosure liability and debt service requirements which resulted in the Authority having a net position deficit of \$1,509,558. This is a repeat of a prior year finding.

Criteria:

Prudent management of Authority resources requires that charges for services be adequate to cover the cost of providing the service.

Effect:

The Authority had inadequate reserves to settle the estimated accrued liabilities.

Cause:

The Authority's rates charged to customers were not adequate to cover postclosure costs and debt service requirements.

Auditor's Recommendations:

We recommend that the Authority consider all expenses including depreciation and postclosure costs when setting rates and adopting the annual budget. We further recommend that the Authority review options to manage this deficit and begin a program to fund the liability.

Management's Response:

When the Del Norte Solid Waste Management Authority was formed in 1992 the adopted Joint Powers Agreement transferred all debt and liability related to solid waste, recycling and the County-owned, Crescent City Landfill to the Authority, and these debts and liabilities still impact the financial position of this agency.

Because historical landfill operations and oversight did not set rates sufficiently high in the past to provide funds for closure and post-closure, the Authority must pledge revenue from the operational transfer station to pay for post-closure maintenance costs. This means that current customers are paying for expenses that accrued in the past.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
SCHEDULE OF FINDINGS AND RESPONSES
YEAR ENDED JUNE 30, 2015

While the Authority's continuing obligations with respect to the post-closure maintenance of the Crescent City Landfill will continue to keep the Authority in a net deficit position for the short and medium term, raising rates is not the only way to address this fiscal responsibility. Specifically, the California Department of Resources Recycling and Recovery (CalRecycle) requires that the Authority demonstrate that mechanisms are in place to address any potential urgent needs associated with this closed landfill.

CalRecycle requires under California Public Resources Code (PRC) sections 43500 through 43610.1 and Title 27 of the California Code of Regulations ("Regulations"), Division 2, Subdivision 1, Chapter 6, Article 2, that operators of solid waste landfills to demonstrate the availability of financial resources to conduct postclosure maintenance and corrective action activities, and sections 22228 and 22245 of the Regulations specify a Pledge of Revenue as an acceptable mechanism to demonstrate financial responsibility for financing postclosure maintenance and corrective action costs of a solid waste landfill. Towards that end, the Authority has used a Pledge of Revenue, approved by CalRecycle and provided to Smith & Newell, to address these requirements.

Furthermore, the Authority Board has standing direction that Authority staff annually request that CalRecycle review and approve a reduced multiplier for the approved annual postclosure maintenance cost estimate. This cost estimate of post-closure liability is determined by multiplying the annual post-closure maintenance cost estimate times 30. CalRecycle has already approved the Authority's application to reduce this multiplier from 30 to 22, reducing the Authority's post-closure liability by \$749,116.

Compared to the prior fiscal year, the Authority's net position improved by just over \$133,103 from (\$1,624,661) to (\$1,509,558). Factors that impacted this calculation included using updated estimates for annual landfill post-closure maintenance expenses, deferred hiring to fill vacant Authority positions, and increased legal and professional accounting oversight expenses. During fiscal year 14/15, the Authority's Program Manager also served as Acting Director while the Administrative Assistant was out on medical leave for a substantial portion of the year.

This is the fourth consecutive audit that has identified the Authority's deficit net position as a significant deficiency, and this deficiency will likely continue until the Authority Board approves a rate increase that will increase the Authority's annual budget. It is also worth noting that if the Authority Board were to raise rates as recommended by Patel & Associates that it would be many years before revenues would accrue to adequately address the calculated liabilities associated with the Crescent City Landfill.

Considered together, the Authority's Pledge of Revenue addresses the potential financial obligations associated with the Crescent City Landfill, regardless of the specific amount, while the annual application to reduce the multiplier represents the Authority's ongoing efforts to reduce those calculated liabilities. The Authority will consider this finding during the setting of rates in 2016.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
SCHEDULE OF FINDINGS AND RESPONSES
YEAR ENDED JUNE 30, 2015

2015-002 GASB 68 Implementation (Significant Deficiency)-Repeated

Condition:

During our audit we noted that Authority employees are reported to CalPERS under the County of Del Norte pension plan.

Criteria:

Governmental Accounting Standards Board Statement No. 68, which is effective for the Authority for periods beginning after June 15, 2014, addresses accounting and financial reporting for pensions that are provided to employees of local governments.

Effect:

The District may not have information for compliance with GASB 68.

Cause:

Authority employees are treated as County of Del Norte employees for purposes of pension reporting.

Auditor's Recommendations:

We recommend that the Authority review the requirements of GASB 68 and take steps necessary to ensure compliance with GASB 68.

Management's Response:

Authority staff will review the requirements of Governmental Accounting Standards Board Statement number 68, addressing accounting and financial reporting requirements for pensions provided to local government employees, and take steps in coordination with the Del Norte County Auditor and Del Norte County Personnel Departments to ensure compliance with GASB 68. Authority implementation of GASB 68 requirements are similar to the level of implementation of these requirements achieved by other Del Norte County departments.

DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY
SCHEDULE OF PRIOR YEAR FINDINGS AND RECOMMENDATIONS
JUNE 30, 2015

<u>Audit Reference</u>	<u>Status of Prior Year Audit Recommendation</u>
2014-001	<p>Deficit Net Assets</p> <p>Recommendation</p> <p>We recommend that the Authority consider all expenses including depreciation and post closure costs when setting rates and adopting the annual budget. We further recommend that the Authority review options to manage this deficit and begin a program to fund the liability.</p> <p>Status</p> <p>Not Implemented</p>
2014-002	<p>GASB 68 Implementation</p> <p>Recommendation</p> <p>We recommend that the Authority review the requirements of GASB 68 and take steps necessary to ensure compliance with GASB 68.</p> <p>Status</p> <p>Not Implemented</p>
2014-003	<p>Year End Closing Process</p> <p>Recommendation</p> <p>We recommend that the Authority work with Del Norte County to record all adjustments in a timely manner so that required adjustments can be recorded prior to the start of the annual audit.</p> <p>Status</p> <p>Implemented</p>
2014-004	<p>Gasquet and Klamath Transfer Station Collections Policies and Procedures</p> <p>Recommendation</p> <p>We recommend that the Authority develop policies and procedures for collections and develop a process to ensure that all collections at the Gasquet and Klamath transfer stations are properly deposited and recorded in the Authority accounts.</p> <p>Status</p> <p>Implemented</p>

Del Norte Solid Waste Management Authority Work Priorities Fiscal Year 2015 – 2016



Mission Statement (Sept. 2014): The Authority's Mission is the management of Del Norte County solid waste and recyclable material in an environmentally sound, cost effective, efficient and safe manner while ensuring 100% regulatory compliance with law.

Purposes of the Authority (2012):

1. Planning, siting, permitting, developing, constructing, maintaining, managing and providing gate attendants for public disposal sites, transfer stations, and/or sanitary landfills, and planning for and securing the services of necessary non-disposal processing facilities or other options related to recovering discarded resources and processing those materials to increase their value;
2. Preparing, implementing, and providing related monitoring, reporting, updates and revisions for programs of a Regional Agency Integrated Waste Management Plan as required under the California Integrated Waste Management Act of 1989 as amended (California Public Resources Code commencing with section 40050), including programs related to used motor oil, oil filters, and household hazardous wastes and other materials and products banned from mixed waste disposal;
3. Defining and monitoring the service standards for collections of discards in the incorporated and unincorporated area of County and the ability to grant franchises for waste hauling and/or collection and processing of mixed recyclable materials, in its discretion; (*Recology Del Norte provides services under the Collections Franchise Agreement with the Authority*)
4. Exercising all setting and controls on maximum rates to be charged to the public for discard collections services, and solid waste and recycling services in Del Norte County, and other appropriate powers reasonably necessary to carry out the purpose of this Agreement, including securing disposal capacity for Del Norte County residents, agencies, and businesses as required under Public Resources Code sections 41701 and 41703;
5. Developing, adopting, and implementing Ordinances and programs to control and prosecute illegal dumping and blight in Del Norte County associated with solid waste accumulation and storage; and
6. Post-closure maintenance, monitoring, reporting and remediation related to the Crescent City Landfill as required by relevant Orders from the Regional Water Quality Control Board, North Coast Region, the California Department of Resources Recycling and Recovery (CalRecycle) the North Coast Air Quality Management District.

5.3

Del Norte Solid Waste Management Authority Work Priorities Fiscal Year 2015 – 2016

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Legend for symbols used:

- ☞ = Activity to be completed during FY 2015-2016
- 📄 = Authority-adopted plan, contract or grant to comply with law
- 💰 = Fiscal responsibility under guidance of Authority Treasurer
- △ = Draft submitted, awaiting agency response
- ⊗ = Lower priority activity or only addressed as time and capacity allows
- ⊗ = Activity deferred by Authority Board action
- ⊕ = Activity added or significantly increased since 2013
- ✓ = Activity completed for FY 2015-2016

Highlighted items had been deferred due to staffing shortages July 2013-December 2015, though these issues are anticipated to become more pressing in the coming years. Items with the ⊗ symbol are receiving inadequate to no attention for the same reason. Less urgent deferred items have been placed at end of document.

This Work Priorities list is a living document. Items may be added as needed due to further direction from the Authority Board, new legislation, regulation or agency action.

Last Updated: **January 2016**

Mandated or Obligatory Ongoing or Future Activities:

1. Del Norte County Transfer Station (TS) Facilities and Operations

-  Schedule appropriate staff to operate and maintain scale and gatehouse operations at the Del Norte County, Klamath and Gasquet transfer stations, including the daily accounting of receipts and transactions at each facility. (Ongoing)
-   Work with Hambro/WSG and Rogue Valley Disposal (or some other regional landfill operator) to secure and/or negotiate future disposal capacity to meet Del Norte County's need and regulatory obligations. (The current contract for disposal capacity will expire in March 2028.)
-   Inspect at least two transfer stations that have implemented repairs to their floors to determine the relative importance of product specifications, contractor experience, and procurement details prior to developing an invitation to bid or request for proposals to repair worn areas of the Del Norte County Transfer Station floor. (Repairs to be implemented during FY 16/17)
-  Procure and manage Household Hazardous Waste (HHW) Collection Event contractor and use Permanent HHW Facility at the Transfer Station for annual HHW Collection Event, as well as daily recycling of used motor oil, oil filters, antifreeze, lead acid batteries, paints stains and varnishes, televisions and computer monitors, household batteries, household fats oils & greases, home generated sharps, and residential and commercial fluorescent tubes. (Ongoing. Next HHW Event: Sept. 10, 2016. Clean Harbors agreement expires: 12 August 2017)
-  Submit necessary forms related to hazardous waste management to the California Department of Toxic Substances Control (DTSC), including form 303 and generator copies of hazardous waste manifests. (Annual)
-  Prepare and submit hazardous waste business plan to the CERS database. (Annual)
-  Submit reports as required by the California Department of Resources Recycling and Recovery (CalRecycle), including quarterly disposal reports, electronic annual reports, and reporting related to management of consumer electronic wastes, appliances, etc. (Annual)
-  Regularly inspect, maintain and improve disposal and recycling facilities and services at the Klamath and Gasquet transfer stations. Both these facilities are without water or power and have security issues. (Ongoing).

- ☒ Work with Hambro/WSG to develop additional resource recovery options that can be integrated into TS operations at a cost which is less than disposal. (Ongoing)
- ☒ Work with Hambro/WSG and Recology Del Norte to assess and evaluate potential impacts associated with changes in Franchise solid waste, recyclables, and yard debris collection services on transfer station operations and revenues. (Ongoing)
- ☞ ✓ Coordinate with the County Department of weights and measures to calibrate and certify the accuracy of the scales used at the Del Norte County Transfer Station. Repair scales as necessary. (Annual; Repaired in January 2016)
- ☞ ✓ Establish a convenient location where commercial businesses and/or boat captains can recycle used oil from containers of up to 55 gallons. (Service started at the Del Norte County Transfer Station in December 2015)
- ✓ Non-Exposure Certification approved for Del Norte County Transfer Station to reduce the level of effort required to comply with the Industrial Stormwater Permit (July 2015).
- ✓ △ Prepare and submit documents as needed for the Del Norte County Transfer Station solid waste facility permit review every five years. Revise the Transfer Station Methods report and Transfer and Processing Report as necessary for new recovery activities and/or management of materials banned from disposal or requiring special handling, including mattresses. (Submitted in 2015; Ongoing)
- ☞ ☒ Prepare and submit the PCI compliance report to assure that measures are in place to protect customer credit and debit card information. (Annual, this deferral is costing ~\$60/month)

2. Crescent City Landfill Post-Closure Maintenance

- ☞ Continue working with County staff to monitor gas wells, groundwater wells, surface water sampling points. Authority staff will continue to compile, summarize and analyze data as well as prepare and submit reports to the North Coast Regional Water Quality Control Board as required under Order 97-90. (Ongoing through 2035)
- ☞ Conduct and submit aerial survey of the landfill every five years to document any differential settlement. (Due in 2016; ongoing through 2035)
- ☞ Continue landfill facility maintenance. This includes semi-annual removal of deep-rooting plants and mowing of surface drainage structures, as well as fence, gate and well repair. Activities will also periodically include regrading, repair to slopes and

drainage structures to reduce ponding, as well as revegetating graded areas.
(Ongoing through 2035)

- ☞△ Apply for reduction in the post-closure multiplier and prepare and submit annual estimate of the post-closure financial liability associated with the Crescent City Landfill to CalRecycle (Annual; ongoing through 2035)
- ✚☞ Work with RWQCB in the development and revision of Waste Discharge Requirements and Monitoring and Reporting Program to analyze water historical quality monitoring information with the intent of *reducing the expense* of water quality monitoring during the post-closure maintenance period, which extends until February 2036 (2016).
- ✚☞ Collect and analyze water samples from two new wells installed at the landfill to possibly demonstrate groundwater flow directions are such that water quality impacts associated with the landfill are unlikely to pose a threat to adjacent residential properties. Continue to engage in similar efforts in pursuit of a reduction in the Threat/Complexity rating for this facility, *resulting in a reduction to the annual permit fee* for the Waste Discharge Requirements issued by the North Coast Regional Water Quality Control Board (RWQCB). (2017)
- ☞ Secure the landfill by repairing fences, gates, barriers, posting 'no trespassing' signs and working with law enforcement and State parks to prevent non-authorized vehicle access to the landfill property. (Ongoing)
- ☞ Conduct and report on constituent of concern monitoring of landfill groundwater every five years. (Next due in August 2019; ongoing through 2035)
- ✓△ Prepare and submit landfill gas heat capacity report and other documentation required by the North Coast Air Quality Management District (NCAQMD). The NCAQMD may impose additional requirements based on this report. (Submitted in 2013; ongoing through 2035)
- ✓ Consult and negotiate with RWQCB staff regarding eliminating stormwater monitoring requirements at the Crescent City Landfill. (Approved 2015)
- ☒ Monitor development of laws and regulations pertaining to control of greenhouse and other landfill gas emissions. Research possible actions and funding sources as necessary and appropriate. (Ongoing)

3. Collections Franchise and Collections System Management

-  Manage Franchise Collections contract with Recology Del Norte to ensure compliance with contract provisions and Service Standards, including drafting annual CPI-based rate adjustments and negotiating and drafting Change Orders for contractual changes. Coordinate with Recology Del Norte as needed. (Ongoing)
-  Continue to promote workplace recyclables collections, the California Commercial Recycling Mandate (AB341) with Recology Del Norte, recycling coordinators, the recyclables collection contractor (currently GH Outreach) and processors like Julindra Recycling. (Ongoing, special report requested by CalRecycle in 2016)
-  Coordinate collection events for Christmas trees, yard debris, household hazardous wastes and other items or materials as opportunities arise (Ongoing)
-  Manage and direct use of the twenty Authority-directed bin pulls to support community cleanup activities. (Annual)
-  Evaluate possible modifications to the Collections Franchise and/or appropriate ordinances to complement the services at the Del Norte County Transfer Station and to expand, provide incentives and document resource recovery. (Ongoing)

4. Reuse, Recycling, and Composting

-  Continue, as a rural regional agency, planning, monitoring and reporting programs, activities, and progress on per capita and per employee waste reduction targets under California Integrated Waste Management Act of 1989, as amended, and as administered by the California Department of Resources, Recovery and Recycling (CalRecycle), including compliance with the California's Mandatory Commercial Recycling Law (AB341). (Ongoing)
-  Continue to coordinate, enhance, and promote recycling of used oil, oil filters and antifreeze using grants from the State agency responsible for oil recycling. (Annual and ongoing)
-  Continue to coordinate, enhance, and promote recycling of beverage containers using grants from the State agency responsible for beverage container recycling. (Annual and ongoing)
-  Plan, coordinate, monitor and report on implementation of product stewardship programs for carpeting, thermostats, household batteries, paints and stains, and mattresses. (Mattress stewardship starts in 2016; Ongoing)

-  Provide material support for County recycling collections through GH Outreach. (Ongoing)
-  Provide backyard composting workshops periodically throughout the year. (Ongoing)
- ✓  Complete the five year review of the Regional Agency Integrated Waste Management Plan in coordination with the Del Norte Solid Waste Task Force. (submitted in 2014, next due by January 2020)
-   Analyze, enhance, expand, develop and support one or more facilities capable of processing locally-generated organic materials for compost or energy production, in Del Norte or one of our adjacent counties. (Ongoing)

5. Education and Public Outreach

-  Prepare outreach materials to promote program activities, events and services including print ads, radio ads, posters, public service announcements, handouts and flyers as well as collections billing inserts promoting waste reduction, reuse, repair, composting, hazard reduction, and proper disposal. (Ongoing)
-  Promote the new mattress recovery services available through the Mattress Recycling Council. (Programs begin in 2016)
-  Coordinate and support beach, river and neighborhood cleanup activities. (Ongoing)
-  Promote waste prevention, reuse, composting and recycling through Youth and Family Fair and the Del Norte County Fair. (Annual)
-  Provide support to the Del Norte Solid Waste Task Force to promote outreach and education, waste reduction, reuse, composting, recycling and related activities. (Quarterly and Ongoing)
-  Continue to provide presentations to community groups and classrooms as requested. (Ongoing)
-  Respond to telephone, fax, and e-mail requests for information and/or complaints regarding services and rates for Authority facilities, programs, and those of its contractors. Such inquiries may address materials such as hazardous materials, marine flares, outdated medicines, asbestos, and other materials requiring special handling. (Ongoing)

-  Update website as needed and upload meeting agenda and minutes. (Ongoing)
-  Work with the California Product Stewardship Council (CPSC) to promote and establish Extended Producer Responsibility and Take Back programs. (Ongoing)
-  Advocate for legislative and regulatory initiatives extending producer responsibilities for end of life product management to reduce Authority costs for managing discards - especially hazardous materials, products or materials banned from disposal, as well as products or materials requiring special handling including marine flares, sharps, fluorescent tubes and household batteries. (Ongoing)
-  Work with the Crescent City Harbor District, US Coast Guard, Del Norte County Sheriff's office, other local representatives and related state agencies to develop strategies to safely manage expired marine flares. (Ongoing)

6. Local Regulations, Ordinances, Plans and Enforcement

-  Administer Code Enforcement and related Blight Abatement and Cleanup activities through the County's Code Enforcement Officer until such time as these functions are incorporated into relevant City and County Ordinances. (Ongoing)
-  Work with County and City Building and Planning Departments to establish forms and processes for Materials Management Plans to be incorporated as appropriate for construction and demolition permits in Del Norte County. (Ongoing)

7. Public Meetings, Budgets, Funding and Fiscal Oversight

-  Develop annual budgets, tracking and reporting expenditures and revenues accordingly. (Annual and ongoing)
-  Prepare and distribute agendas, minutes, resolutions, ordinances, and related staff reports in compliance with public meeting laws and related agreements and by-laws. Respond to telephone, fax, and e-mail requests for information regarding Authority and Task Force agendas, meetings, minutes and actions. (Ongoing)
-  Prepare and submit necessary reports related to post-employment retirement (OPEB) benefits and funding. (Annual)
-  Prepare and submit necessary reports related to General Accounting Board Standards Board Statements Numbers 45 and 68. (Annual)
-  Work with contractor to complete the annual agency audit report and respond

according to recommendations and Board direction. (Annual)

-  Track charge customer accounts and payments, sending out monthly statements, assessing late charges, and referring past-due accounts to collections under adopted policies. (Ongoing)
-  Solicit, negotiate and administer Del Norte Solid Waste Management Authority and Abandoned Vehicle Abatement Service Authority contracts as necessary. (Ongoing) (The Waste Authority Board also serves as Abandoned Vehicle Abatement Authority.)
-  Develop partnerships with Del Norte County and Crescent City departments to efficiently deliver services. (Ongoing)

8. Personnel and Staffing

-  Negotiate and adopt an updated Memorandum of Understanding with the Del Norte Solid Waste Management Authority Employees Association and update as needed. (Current agreement expires in March, 2016)
-  Complete negotiations with DNSWMA Union and Mid-management employees for a Memorandum of Understanding with the Del Norte Solid Waste Management Authority Employees Association and update as needed. (Deferred since Sept 2013; Union agreement expires in March 2016)
-  Recruiting and hiring a full complement of staff according to the adopted staffing chart, including hiring and training refuse site attendants and relief workers for the Del Norte County Transfer Station, as well as the Gasquet and Klamath container sites. (Ongoing)
-  Training staff through regular meetings, workshops, in-service training, annual HAZWOPER (Hazardous Waste Operations) refreshers, educational and/or on-line courses and conferences. (Monthly staff safety meetings and Ongoing)

9. Other Responsibilities and Activities

-  Provide collection and consolidation services as needed for public home-generated sharps drop-off points. (Ongoing)
-  Work with the Del Norte County Small Business Development Center to prepare an application to have the North Coast Recycling Market Development Zone (including Humboldt and Del Norte Counties) redesignated as an enterprise zone promoting

recycling market development and development of recovery-based enterprises through technical assistance services and financing opportunities. (Redesignation application to be submitted in 2016)

- ☞ Responding to public, press, government agency and tribal agency requests for information and reports. (Ongoing)
- ☞☒ Obtain and maintain equipment, signage, supplies and software for monitoring, reporting, scale management, servicing, outreach and collection event activities. (Ongoing)
- ☒ Providing professional assessment and analysis of how other jurisdictions have addressed the issues and concerns identified by the Authority Board, including obtaining model requests for proposals, agreements and/or ordinances. (As needed)

Annual Testing and Reporting Calendar

Activity	Month	Date	Activity	Month	Date	Activity	Month	Date	Activity	Month	Date
Order bottles	January		Order bottles	July		Order bottles	January		Order bottles	July	
TS Maintenance			TS Maintenance			TS Maintenance			TS Maintenance		
LF Maintenance			LF Maintenance			LF Maintenance			LF Maintenance		
LF Groundwater			LF Groundwater			LF Groundwater			LF Groundwater		
LF Surface water			LF Surface water			LF Surface water			LF Surface water		
LF Leachate			LF Leachate			LF Leachate			LF Leachate		
Order - RWQCB			Order - RWQCB			Order - RWQCB			Order - RWQCB		
LEA			LEA			LEA			LEA		
Publications			Publications			Publications			Publications		
Community Events			Community Events			Community Events			Community Events		
Order bottles	January		Order bottles	July		Order bottles	January		Order bottles	July	
TS Maintenance			TS Maintenance			TS Maintenance			TS Maintenance		
LF Maintenance			LF Maintenance			LF Maintenance			LF Maintenance		
LF Groundwater			LF Groundwater			LF Groundwater			LF Groundwater		
LF Surface water			LF Surface water			LF Surface water			LF Surface water		
LF Leachate			LF Leachate			LF Leachate			LF Leachate		
Order - RWQCB			Order - RWQCB			Order - RWQCB			Order - RWQCB		
LEA			LEA			LEA			LEA		
Publications			Publications			Publications			Publications		
Community Events			Community Events			Community Events			Community Events		

RWQCB Permit 0044-006
 RWQCB Testing and Reporting Program under Order 07-20
 Permit Criteria: 100 mg/L Lead, 50 mg/L Copper and 10 mg/L Nickel
 Del Norte County Transfer Station Transfer & Processing Report, including the Stormwater Pollution Prevention Plan

Additional Responsibilities:
 Aerial topographical mapping and report - January 2016
 Negotiating additional landfill capacity - 2015
 Completion of General Membership Survey 2015

Last Updated: January 2016

Deferred Discretionary Activities:

- ⊗ Submit application, fees, print forms and conduct training necessary to provide public scale services at the Del Norte County Transfer Station. (Pending, deferred at present)
- ⊗ Work cooperatively with the Humboldt Waste Management Authority for regional promotion of waste prevention, reuse, repair, composting and recycling. (Ongoing)
- ⊗ Provide timely analysis and/or recommendations for Board actions or letters regarding legislation and/or regulations which pertain to Authority activities or programs, including coordination with statewide groups such as the Environmental Services JPA of the Regional Council of Rural Counties or the California Resource Recovery Association. (Ongoing)
- ⊗ Continue outreach and public-private partnerships in support of Extended Producer Responsibility, coordinated with the California Product Stewardship Council. (Ongoing)
- ⊗ Apply for and administer additional competitive grants to support local and/or regional programs as opportunities arise. (Deferred)
- ⊗ Monitor and report on Authority and County implementation of procurement policies promoting the procurement and use of reusable, recyclable, and recycled-content products.(Ongoing)

Deferred Activities associated with Resource Recovery Infrastructure and Recycling Market Development:

- ⊗ Through the North Coast Cooperative for Recycling Infrastructure Development (Coop), support expansion of reuse, recycling, and compost processors and manufacturers in Del Norte and Humboldt counties to bolster regional markets for recovered materials. (Ongoing)
- ⊗ Use the Coop as a forum for reducing overall program costs by sharing resources and personnel, or storing and consolidating recovered materials at public facilities as opportunities arise. (Ongoing)
- ⊗ Develop a plan for the Resource Recovery Park property adjacent to the Del Norte County Transfer Station.



Del Norte Solid Waste Management Authority

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Phone (707) 465-1100 Fax (707) 465-1300
www.recycledelnorte.ca.gov

The Authority's mission is the management of Del Norte County solid waste and recyclable material in an environmentally sound, cost effective, efficient and safe manner while ensuring 100% regulatory compliance with law.

January 11, 2016

Assembly Member Das Williams
Capitol Office
P.O. Box 942849, Room 4005
Sacramento, CA 94249-0037

Dear Assembly Member Das William:

Subject: Opposition of Assembly Bill 1063

On behalf of the Del Norte Solid Waste Management Authority, I am writing to share our concerns regarding the impact amendments to Assembly Bill 1063 would have on our rural community. The provision of this bill of primary concern is the creation of a new fee (Solid Waste Generator Charge) on all solid waste generators, including residents, businesses, public intuitions and self-haulers throughout the state, effective January 1, 2109. The intent of this bill is to generate enough revenue to generate \$15 million/year through December 31, 2021 for the purposes of covering CalRecycle's annual operating costs and regulatory activities of the state and regional water board regulatory activities associated with landfills.

While we understand the need to recoup funds adequate to provide services, this is a State fee and we believe the State should therefore be in the position of collecting this fee rather than local jurisdictions. Residents, business and other stakeholders at the local level will not distinguish nor understand the rationale for rate increases that would be necessary to administer the collection of this fee. This bill would force our local governments to collect a State fee from its residents and businesses with no mechanism to recoup resources utilized to collect said fee. In addition, the requirement to collect this fee from all solid waste generators will be especially challenging in jurisdictions like ours where trash and recycling collections are not mandatory.

A portion of the funds are intended to fund regulatory activities of the State Water and Regional Water Quality Control Boards. Our agency is already subject to Waste Discharge Requirements fees assessed by the Regional Board that we believe are excessive. If such a new fee is instituted, we believe it would be appropriate that the amounts of other fees would be reduced accordingly, but those provisions are not included in the legislation in its current form.

5.4

For these reasons, we are opposing this bill and encourage you to consider alternatives in addressing the funding of CalRecycle. Should you have any questions, please feel to contact me.

Sincerely,

Tedd Ward, MS
Director
Del Norte Solid Waste Management Authority

Cc: Senator Patricia C. Bates
Senator Ted Gaines
Senator Jerry Hill
Senator Hannah-Beth Jackson
Senator Mark Leno
Senator Mike McGuire
Senator Fran Pavley
Senator Bob Wieckowski
Assembly Member Jim Wood
Each member of the Del Norte Solid Waste Management Authority
Each member of the Del Norte County Solid Waste Task Force

KW:kw

AMENDED IN SENATE AUGUST 17, 2015

AMENDED IN SENATE JULY 15, 2015

AMENDED IN AS

CALIFORNIA LEGISLATURE

ASSEMBLY BILL**+ SR****No. 1063****Introduced by As:**

February 26, 2015

An act to amend Sections 48001 and 48004 of, to amend, repeal, and add Section 48000 of, and to add and repeal Section 48000.1 of, to, the Public Resources Code, relating to solid waste, and declaring the urgency thereof, to take effect immediately.

LEGISLATIVE COUNSEL'S DIGEST

AB 1063, as amended, Williams. Solid waste: charges.

(1) Existing law requires the operator of a disposal facility to pay to the State Board of Equalization a fee based on the amount of all solid waste disposed of at each disposal site. The act requires the Department of Resources Recycling and Recovery to establish the amount of the fee, as specified, and limits the fee to a maximum of \$1.40 per ton. Existing law requires the moneys collected from the fee to be deposited in the Integrated Waste Management Account and to be used by the department, upon appropriation, for specified purposes.

This bill would raise the fee imposed on an operator of a disposal facility from a maximum of \$1.40 per ton to \$5 \$4 per ton between *commencing* January 1, 2017, and January 1, 2022, inclusive, and to \$3.50 per ton on and after January 1, 2022. 2017. The bill would require a minimum of \$1 \$1.50 per ton of the fee collected from each operator between January 1, 2017, and operator, until January 1, 2022, and would authorize some or all of the fee collected thereafter, to be allocated to activities that promote recycling and the highest and best use of materials, as specified.

The

This bill additionally would require the department, commencing January 1, 2019, to establish, as provided, and impose a charge on all solid waste generators to be collected by a city, county, or city and county and remitted to the state board, as specified. The bill would require that the moneys collected from each solid waste generator between January 1, 2019, and would, until January 1, 2022, be allocated by authorize the department to *allocate a portion of the moneys collected to fund* activities that promote recycling and the highest and best use of materials, as specified. By adding to the duties of local governments, this bill would impose a state-mandated local program.

(2) The California Constitution requires the state to reimburse local agencies and school districts for certain costs mandated by the state. Statutory provisions establish procedures for making that reimbursement.

This bill would provide that, if the Commission on State Mandates determines that the bill contains costs mandated by the state, reimbursement for those costs shall be made pursuant to these statutory provisions.

(3) This bill would declare that it is to take effect immediately as an urgency statute.

Vote: ²/₃. Appropriation: no. Fiscal committee: yes. State-mandated local program: yes.

The people of the State of California do enact as follows:

P2 1 SECTION 1.
2 Section 48000 of the Public Resources Code is
3 amended to read:
4 48000.
5 (a) Each operator of a disposal facility shall pay a fee
6 quarterly to the state board, which is based on the amount, by
7 weight or volumetric equivalent, as determined by the department,
8 of all solid waste disposed of at each disposal site.
9 (b) (1) The fee for solid waste disposed of shall be one dollar
10 and thirty-four cents (\$1.34) per ton. Commencing with the
11 1995-96 fiscal year, the amount of the fee shall be established by
12 the department at an amount that is sufficient to generate revenues
13 equivalent to the approved budget for that fiscal year, including a
14 prudent reserve, but shall not exceed one dollar and forty cents
15 (\$1.40) per ton.
16 (2) On and after July 1, 2012, the amount of the fee established
17 by the department pursuant to paragraph (1) shall be increased by
18 twelve cents (\$0.12) per ton for each operator of a solid waste
19 landfill whose owner has notified the department that it elects to
20 participate in the State Solid Waste Postclosure and Corrective
21 Action Trust Fund pursuant to Article 2.1 (commencing with
22 Section 48010).
23 (c) The department shall notify the state board on the first day
24 of the period in which the rate shall take effect of any rate change
25 adopted pursuant to paragraphs (1) and (2) of subdivision (b).
26 (d) The department and the state board shall ensure that all of
27 the fees for solid waste imposed pursuant to this section that are
28 collected at a transfer station are paid to the state board in
29 accordance with this article.
30 (e) (1) The fee imposed by paragraph (2) of subdivision (b)
31 shall not be operative on or after July 1, 2012, unless the
32 department receives, on or before January 1, 2012, letters of
33 participation in the State Solid Waste Postclosure and Corrective
34 Action Trust Fund from landfill owners representing at least 50
35 percent of the total volume of waste disposed of in 2010.
36 (2) The department shall notify the state board, on or before
37 February 29, 2012, if the fee imposed by paragraph (2) of
38 subdivision (b) shall become operative pursuant to paragraph (1).
39 (f) This section shall remain in effect only until January 1, 2017,
40 and as of that date is repealed, unless a later enacted statute, that
41 is enacted before January 1, 2017, deletes or extends that date.
42 SEC. 2.
43 Section 48000 is added to the Public Resources Code,
44 to read:
45 48000.
46 (a) (1) Each operator of a disposal facility shall
47 quarterly pay a fee that is based on the amount, by weight or
48 volumetric equivalent as determined by the department, of all solid
49 waste disposed at each disposal site. The fee shall be ~~five dollars~~
50 ~~(\$5.00)~~ *four dollars (\$4.00)* per ton.
51 (2) The fee imposed by this subdivision shall be remitted to the
52 state board.
53 (b) (1) Notwithstanding Section 48004, *until January 1, 2022,*

39 no less than one dollar-~~(\$1.00)~~ and fifty cents (\$1.50) per ton
 40 collected pursuant to subdivision (a) shall be allocated by the
 P4 1 department, upon appropriation by the Legislature, to fund
 2 activities that promote recycling and the highest and best use of
 3 materials through any of the following:
 4 (A) Market incentive payments for recycling infrastructure and
 5 activities.
 6 (B) Grants to local governments to implement programs that
 7 increase recycling and reduce disposal.
 8 (C) Grants and loans to develop recycling infrastructure.
 9 (2) When implementing paragraph (1), if the department
 10 determines there are sufficient moneys collected pursuant to this
 11 section, it shall prioritize the funding of market incentive payments.
 12 ~~(e) This section shall become operative on January 1, 2017.~~
 13 ~~(d) This section shall remain in effect only until January 1, 2022,~~
 14 ~~and as of that date is repealed, unless a later enacted statute, that~~
 15 ~~is enacted before January 1, 2022, deletes or extends that date.~~
 16 ~~(c) Notwithstanding Section 48004, on and after January 1,~~
 17 ~~2022, moneys collected pursuant to subdivision (a) may be~~
 18 ~~allocated by the department, upon appropriation by the Legislature,~~
 19 ~~to fund activities identified in subdivision (b).~~
 20 ~~(d) This section shall become operative on January 1, 2017.~~

21 ~~SEC. 3.—~~
 22 ~~Section 48000 is added to the Public Resources Code,~~
 23 ~~to read:~~
 24 ~~48000.—~~
 25 ~~(a) (1) Each operator of a disposal facility shall~~
 26 ~~quarterly pay a fee that is based on the amount, by weight or~~
 27 ~~volumetric equivalent as determined by the department, of all solid~~
 28 ~~waste disposed at each disposal site. The fee shall be three dollars~~
 29 ~~and fifty cents (\$3.50) per ton.~~
 30 ~~(2) The fee imposed by this subdivision shall be remitted to the~~
 31 ~~state board.~~
 32 ~~(b) Notwithstanding Section 48004, moneys collected pursuant~~
 33 ~~to subdivision (a) may be allocated by the department, upon~~
 34 ~~appropriation by the Legislature, to fund activities that promote~~
 35 ~~recycling and the highest and best use of materials through any of~~
 36 ~~the following:~~
 37 ~~(1) Market incentive payments for recycling infrastructure and~~
 38 ~~activities.~~
 39 ~~(2) Grants to local governments to implement programs that~~
 40 ~~increase recycling and reduce disposal.~~
 41 ~~(3) Grants and loans to develop recycling infrastructure.~~
 42 ~~(c) This section shall become operative on January 1, 2022.~~

P5 1 ~~SEC. 4.—~~
 2 ~~Section 48000.1 is added to the Public Resources Code,~~
 3 ~~to read:~~
 4 ~~48000.1.—~~
 5 ~~(a) (1) The department shall establish and impose a~~
 6 ~~quarterly charge on solid waste generators in an amount sufficient~~
 7 ~~to ensure fifteen million dollars (\$15,000,000) per calendar year~~
 8 ~~is available to be used pursuant to subdivision (c).~~
 9 ~~(2) To the extent possible, the charge shall apply to all solid~~
 10 ~~waste generators, including residential entities, commercial entities,~~
 11 ~~public entities, and self-haulers.~~

10 ~~(b) (1) The charge shall be collected by a city, county, or a city~~
 11 ~~and county or up to two designees per city or county or city and~~
 12 ~~county.~~

13 ~~(2) The charge imposed by this section shall be remitted to the~~
 14 ~~state board.~~

15 ~~(c) (1) Notwithstanding Section 48004, the moneys collected~~
 16 ~~pursuant to this section shall be allocated by the department, upon~~
 17 ~~appropriation by the Legislature, to fund activities that promote~~
 18 ~~recycling and the highest and best use of materials through any of~~
 19 ~~the following:~~

20 ~~(A) Market incentive payments for recycling infrastructure and~~
 21 ~~activities.~~

22 ~~(B) Grants to local governments to implement programs that~~
 23 ~~increase recycling and reduce disposal.~~

24 ~~(C) Grants and loans to develop recycling infrastructure.~~

25 ~~(2) When implementing paragraph (1), if the department~~
 26 ~~determines there are sufficient moneys collected pursuant to this~~
 27 ~~section, it shall prioritize the funding of market incentive payments.~~

28 ~~(d) This section shall become operative on January 1, 2019.~~

29 ~~(e) This section shall remain in effect only until January 1, 2022,~~
 30 ~~and as of that date is repealed, unless a later enacted statute, that~~
 31 ~~is enacted before January 1, 2022, deletes or extends that date.~~

32 ~~SEC. 5.~~

33 ~~SEC. 3.~~

34 Section 48000.1 is added to the Public Resources Code,
 to read:

35 48000.1.

36 (a) (1) The department shall establish and impose a
 quarterly charge on solid waste generators as follows:

37 (A) Commencing January 1, ~~2022, 2019~~, and every three years
 38 thereafter, the charge on solid waste generators shall be calculated
 39 to collect moneys sufficient to recover the department's costs to
 40 implement this division *described in Section 48004* that are not
 P6 1 covered by the moneys annually collected pursuant to Section
 2 48000 during the prior three fiscal years.

3 (B) In determining the amount of moneys required to implement
 4 this division, *recover the costs described in Section 48004*, the
 5 department shall set the charge based on the moneys deposited in
 6 the account for the ~~2018-19 2017-18~~ fiscal year less the amount
 7 set to fund activities pursuant to subdivision (b) of Section 48000
 8 plus any additional or reduced collected moneys necessary to
 9 implement any additional or reduced allocations and transfers
 10 approved by the Legislature.

11 (C) *Until January 1, 2022, in addition to the amount determined*
 12 *pursuant to subparagraph (A), the charge shall include an amount,*
 13 *determined by the department, sufficient to ensure that not less*
 14 *than fifteen million dollars (\$15,000,000) for each calendar year*
 15 *is collected for the purposes of subdivision (c).*

16 (2) To the extent possible, the charge shall apply to all solid
 17 waste generators, including residential entities, commercial entities,
 18 public entities, and self-haulers.

19 (b) (1) The charge shall be collected by a city, county, or a city
 20 and county or up to two designees per city or county or city and
 21 county.

22 (2) The charge imposed by this section shall be remitted to the

23 state board.

24 ~~(e) This section shall become operative on January 1, 2022.~~

25 *(c) (1) Notwithstanding Section 48004, moneys collected*
26 *pursuant to subparagraph (C) of paragraph (1) of subdivision (a)*
27 *may be allocated by the department, upon appropriation by the*
28 *Legislature, to fund activities that promote recycling and the*
29 *highest and best use of materials through any of the following:*

30 *(A) Market incentive payments for recycling infrastructure and*
31 *activities.*

32 *(B) Grants to local governments to implement programs that*
33 *increase recycling and reduce disposal.*

34 *(C) Grants and loans to develop recycling infrastructure.*

35 *(2) When implementing paragraph (1), if the department*
36 *determines there are sufficient moneys collected pursuant to this*
37 *chapter, it shall prioritize the funding of market incentive payments.*

38 ~~SEC. 6:~~

39 ~~SEC. 4.~~

Section 48001 of the Public Resources Code is
40 amended to read:

P7 1 48001.

2 (a) The revenue from the fees paid pursuant to this
3 chapter shall be deposited, after payment of refunds and
4 administrative costs of collection, in the Integrated Waste
5 Management Account, which is hereby created in the fund.

6 (b) The department and the state board shall ensure all of the
7 fees for solid waste imposed pursuant to this chapter, including,
8 but not limited to, fees on solid waste that is exported for disposal,
9 are remitted to the state board in accordance with this article.

10 ~~SEC. 7:~~

11 ~~SEC. 5.~~

Section 48004 of the Public Resources Code is
12 amended to read:

13 48004.

14 (a) The money in the account shall be used by the
15 department, upon appropriation by the Legislature, for the
16 following purposes:

17 (1) The administration and implementation of this division by
18 the department, including a prudent reserve.

19 (2) The state water board's and regional water boards'
20 administration and implementation of Division 7 (commencing
21 with Section 13000) of the Water Code at solid waste disposal
22 sites.

23 (b) It is the intent of the Legislature that an amount that is
24 sufficient to fund state water board and regional water board
25 regulatory activities for solid waste landfills be appropriated from
26 the account by the Legislature in the annual Budget Act. Those
27 persons who are required to pay the fee imposed pursuant to
28 Section 48000 shall not be required to pay the annual fee imposed
29 pursuant to subdivision (d) of Section 13260 of the Water Code
30 with regard to the same discharge if the requirements for the waiver
31 of that fee set forth in paragraph (3) of subdivision (d) of Section
32 13260 of the Water Code are met.

33 (c) Notwithstanding subdivisions (a) and (b), if the fee
established pursuant to Section 48000 does not generate revenues
sufficient to fund the programs specified in this section or if the

34 amount appropriated by the Legislature for these purposes is
35 reduced, those reductions shall be equally and proportionally
36 distributed between funding for the solid waste programs of the
37 state water board and the regional water boards and the department.

38 ~~SEC. 8.~~

39 ~~SEC. 6.~~

If the Commission on State Mandates determines that
40 this act contains costs mandated by the state, reimbursement to
P8 1 local agencies and school districts for those costs shall be made
2 pursuant to Part 7 (commencing with Section 17500) of Division
3 4 of Title 2 of the Government Code.

4 ~~SEC. 9.~~

5 ~~SEC. 7.~~

This act is an urgency statute necessary for the
6 immediate preservation of the public peace, health, or safety within
7 the meaning of Article IV of the Constitution and shall go into
8 immediate effect. The facts constituting the necessity are:

9 To ensure the Department of Resources Recycling and Recovery
10 has sufficient resources to efficiently and effectively regulate the
11 generation and disposal of solid waste for the protection of public
12 health and safety, it is necessary for this measure to take effect
13 immediately.

0



Del Norte Solid Waste Management Authority

1700 State Street, Crescent City, CA 95531
Phone (707) 465-1100 Fax (707) 465-1300
www.recycledelnorte.ca.gov

The Authority's mission is the management of Del Norte County solid waste and recyclable material in an environmentally sound, cost effective, efficient and safe manner while ensuring 100% regulatory compliance with law.

Director's Report

Date: 13 January 2016
To: Commissioners of the Del Norte Solid Waste Management Authority
From: Tedd Ward, M.S. – Director 
File Number: **231501 – Authority Work Plans**

Summary: The Del Norte Solid Waste Management Authority continues to operate the Klamath, Gasquet and Del Norte County Transfer Stations and to provide required monitoring, accounting and reports to overseeing agencies and other public services. Authority staff provide these services without any financial support from the City of Crescent City or the County of Del Norte, and without receiving a penny of taxes. The rates charged at Authority-managed facilities continue to be the lower than any comparable facilities in Humboldt or Curry Counties.

In January the Authority's Treasurer / Controller Rich Taylor and staff from the Del Norte County Auditor's office conducted another surprise cash count. The Authority's records and cash holdings once again matched to the penny.

During this past month, the scales at the Del Norte County Transfer Station were serviced, re-calibrated and re-certified. This service call followed the failure of the outbound scale on the afternoon of Friday January 8th. The scale repair tech arrived Saturday afternoon. As the outbound scale was being repaired on Saturday 09 January 2016, additional staff worked to control traffic as both in-bound and out-bound traffic used the same scale. Two load cells and two circuit boards were replaced on the outbound scale. Both scales were fixed and calibrated by 10 AM Sunday January 10th.

Personnel / Staffing: All Authority-managed facilities were open during posted hours and all shifts were covered. I submitted responses to an informational request from Aaron Burton of SEIU 1021 in preparation for negotiating a new agreement with the Del Norte Solid Waste Management Authority employees union, an affiliate of SEIU 1021. The current agreement expires on March 7, 2016, so I anticipate having a draft

6.1

agreement included in the February agenda packet.

During this past month temporary/part-time refuse site attendant Bonnie Smith terminated her employment with the Authority, effective on 22 January 2016. I have submitted a personnel requisition form so we may fill this vacancy as soon as possible and begin training. Rose Reppond was also hired as a permanent, part-time refuse site attendant pending successful completion of a six-month probationary period.

The Authority's new Facilities and Program Coordinator is now trained to be able to serve as a refuse site attendant, which is the one of the first steps in training. Learning the range and detail of the responsibilities of this position will take many months, and Ms. Warner is performing well.

During this past month, I welcomed City Councilperson Blake Inscore as an appointed Authority Commissioner and briefed him on the Authority's history and responsibilities.

Facilities: On 21 December 2015, I inspected the Crescent City Landfill with Houawa Moua of the Del Norte County Department of Environmental Health, Rick Lauchstedt of the County Engineering Department and Coordinator Kayleen Warner. We observed several areas of significant erosion, including erosion that had compromised berms and surface drainage structures so they did not function in conveying surface water runoff into downdrains. Knowing that the most intense storms are the most damaging, and that historically, the most intense storms generally occur during the months of December and January, all parties agreed to wait until mid-January (or until the worst of the storms had passed) before beginning repairs. Initial grading and repair work is scheduled to begin on 21 January 2016, weather permitting.

During the past month, Authority staff have received several complaints of vehicles driving across the landfill property and of gunfire near the landfill. Staff are working with law enforcement and State Parks personnel to address these issues.

On Saturday January 2nd, gate house staff experienced a failure of the credit card software. As the person most responsible and familiar with all software used at the Del Norte County Transfer Station, I fixed the credit card software issue. Unfortunately, implementing this repair required re-starting the scalehouse computer, which would take 7-10 minutes. Traffic was such that gate staff did not have time to reboot the computer (without causing further delays and frustrating those customers waiting in line) until the end of the day. To reduce the time required to re-boot, I came in at 6 AM on Monday morning so the software technicians in New Hampshire could implement the needed software fixes. Now credit card software is working and it only takes about 20 seconds to reboot.

My research regarding possible approaches to the repair of the worn areas of the Del Norte County Transfer Station floor will next lead me to visit the Redding Transfer Station on 25 February which has conducted several floor repairs. The purpose of these tours are to ascertain the effectiveness of the repairs, the importance of

specifying specific products for these repairs, the relative importance of contractor experience, and to obtain copies of their procurement documents and specifications. This second tour is intended to gather additional information to determine the best way to approach the floor repairs at the Del Norte County Transfer Station.

Finances and Audits: The Authority's annual audit is complete for the fiscal year that ended on June 30, 2015. Highlights of this audit include:

- The Authority's cash and investments totaled \$765,628, plus an additional \$198,177 set aside for the final payment to the I-Bank for financing the construction of the Del Norte County Transfer Station.
- During this fiscal year, the Authority increased its net cash by \$219,435. Net cash is the cash available in Authority accounts, whereas net position which is all assets less all liabilities.
- The Authority's net position improved by \$133,103 during FY 14/15, whereas the Authority's net position had decreased during FY 13/14. As a joint powers authority, this agency is required to fund depreciation as a cash expense. In FY 13/14, the Authority increased its net cash by just \$71,152, though the depreciation expense for that year was \$97,815. Largely due to expensing depreciation, during FY 13/14 the Authority decreased its net position by \$18,709. So having such an increase in net position this year is very good news.
- At the end of FY 14/15, the Authority had a net-deficit position of \$1,509,558, caused by the post-closure liability of \$2,180,935 associated with the Crescent City Landfill. For comparison, at the end of FY 04/05 after the opening of the Del Norte County Transfer Station the Authority's net-deficit position was \$2,981,434. Authority activities have generally improved this net-deficit position each year.
- In a repeat of prior findings, the auditor found that the Authority's charges for services were not sufficient to cover post-closure liability, fund OPEB obligations, and debt-service requirements. Essentially the auditors recommend that the Authority raise rates to hasten the date when this agency does not have a net-deficit position financially. A more comprehensive response from staff on this issue is included as the 'Management Response' on pages 30 and 31 of the Annual Financial Report.

On 08 January 2016, The Authority's Treasurer / Controller and three staff from the Del Norte County Auditor's office conducted a surprise cash count at the Authority. Once again, the Authority's records and the cash holdings matched *to the penny*. These surprise cash counts were first implemented in 2013 as an additional fiscal control to assure that any improper handling of money is prevented or detected promptly.

Vendor Contract Management and Oversight: I have received approval from

CalRecycle for the Authority to provide 50% funding under our beverage container grants for Julindra's purchase of a magnet to remove steel cans and other magnetic contaminants from the mixed recyclable materials processed at Julindra. Staff anticipate this expense to be approximately \$5,500. Jordan Kekry of Julindra reports that prices for most recyclable materials are relatively low, and have been so for many months. How these drops in commodity prices may impact services in Del Norte is not clear at this time.

Under agenda item 3.1, the Authority acknowledges the appointment of Jeremy Herber as General Manager of Recology Del Norte. Mr. Herber has been serving in this capacity on a temporary basis since the passing of former General Manager Tommy Sparrow.

Hambro / WSG is continuing their negotiations with the Mattress Recycling Council. At this point, it appears that in 2016, there will be at least two mattress collection events at the Del Norte County Transfer Station, including one on the day of the annual Household Hazardous Waste Collection Event.

Compliance: Starting on 14 January 2016, Kayleen Warner began the process of entering historical water sample data into the Geotracker online database. She also assisted with the preparation of the semi-annual report summarizing monitoring activities at the Crescent City Landfill during the last half of 2015 (see agenda item 2.2).

Under agenda item 2.1, Dick Davis has proposed to complete the aerial survey as requested by the Authority for an amount not-to-exceed \$3,790. Under Order 97-90, the Authority is to complete an aerial survey every five years, and it is due.

Under agenda item 2.4, Lawrence & Associates has completed their '**Proposed Updates to the Monitoring and Reporting Program for the Crescent City Landfill.**' In addition, Authority staff intend to send a version of the letter under agenda item 2.3 to residents adjacent to the landfill property to secure permission to collect samples from one or more residential wells. Staff of the Regional Water Quality Control Board has said if the residential well samples do not detect adverse water quality impacts, they would agree to temporarily reduce the Threat/Complexity rating for the Crescent City Landfill, which would result in an annual permit fee reduction of over \$26,566 annually.

Programs / Policies: In the coming weeks, Ms. Warner will also be tasked with preparing a response to CalRecycle regarding their request for additional information associated with our compliance with the California Mandatory Commercial Recycling programs.

CalRecycle staff indicated that it is time for Del Norte to re-apply for designation under the Recycling Market Development Zone program. Following discussions with Jessica Mercado and the Board of the Del Norte Economic Development Corporation,

staff are continuing support efforts by DNEDC to prepare a re-designation application.

Concerns: For many months a significant number and intensity of tasks and reports had been deferred. In coming months, staff hope to address these tasks.

Major Activities on the 'To-Do' list:

Items remain on the 'To Do' list until they are completed, as time and staff capacity allows. Actions at each Authority meeting may add items to this list.

1. Work with Lawrence & Associates to complete entry of landfill water quality data into the GeoTracker system. Work with legal counsel, County staff and L&A to make preparations for collecting water samples from residential wells adjacent to the landfill property.
2. Continue training of Facilities and Programs Coordinator, including collection of groundwater and surface water samples from the Crescent City Landfill.
3. Visit the Redding Transfer Station to inspect their floor repairs and interview persons familiar with the associated procurement and repair activities.
4. Work with Shawn Slater and Creative Information Systems to set up computer equipment and updated scale management software.
5. Negotiate an agreement with the Del Norte Solid Waste Management Authority Employee's Union / SEIU 1021.
6. Work with Hambro / WSG and the Mattress Recycling Council to arrange at least two mattress recycling collection events at the Del Norte County Transfer Station in 2016.
7. Conduct inspections of certified oil recycling centers in Del Norte County, as required under CalRecycle's Oil Payment Program.
8. Continue to work with Creative Information Systems and X-Charge regarding accounting for oil payments.
9. Coordinate with staff of Sutter Coast hospital to assure that accurate and correct information is being provided to patients regarding management of expired medicines and home-generated sharps.

Solid Waste
Balance Sheet
November 30, 2015

Unaudited

ASSETS

422 010 00000	Cash Solid Waste	744,984.58
422 010 00300	Imprest Cash	3,500.00
422 010 00500	I Bank Loan Deposit Held by County	198,177.17
422 010 01100	Accounts Receivable	31,216.75
422 010 03200	Land	493,000.00
422 010 03300	Transfer Station	3,266,990.64
422 010 03400	Equipment	158,443.55
422 010 03410	Buildings & Improvements	141,638.89
422 010 03440	Accum Depr Equipment	(157,499.00)
422 010 03450	Accum Depr Bldg & Improv	(100,380.00)
422 010 03460	Accum Depr Transfer Station	(837,202.00)
	Total Assets	<u>3,942,870.58</u>

LIABILITIES AND FUND EQUITY

422 010 05210	Sublease Payable	2,829,198.50
422 010 05300	Compensated Absences Payable	33,798.29
422 010 05400	Deferred Revenue	31,216.75
422 010 05500	Post Closure Liability	2,113,745.25
422 010 05600	Net OPEB Obligation	197,137.00
422 010 07100	Fund Balance	(2,035,048.22)
422 010 09600	Investment in Capital Assets net of related debt	578,198.00
	Revenue	1,202,574.35
	Expenditure	(1,007,949.34)
	Total Liabilities and Fund Equity	<u>3,942,870.58</u>

6.2

**DNSWMA
GRAND TOTALS
DECEMBER 2015**

	Amount to 422-421 91003 66.53%	Amount to 422-421 91004 33.47%	TOTAL AMOUNT
DNCTS Cash Total	23,402.57	11,773.40	35,175.97
DNCTS Charge Total	100,372.90	50,495.73	150,868.63
DNCTS Credit/Debit	13,741.19	6,912.94	20,654.13
DNCTS Totals	137,516.67	69,182.06	206,698.73
Klamath Cash Total		2,941.30	2,941.30
Klamath Charge Total		0.00	0.00
Klamath Totals		2,941.30	2,941.30
Gasquet Cash Total		908.05	908.05
Gasquet Charge Total		52.58	52.58
Gasquet Totals		960.63	960.63
Adjustments			
GRAND TOTALS	137,516.67	73,083.99	210,600.66

6.4

Statement of Revenues and Expenditures

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Fund: 422 Solid Waste
 Dept: 421 Solid Waste

Statement of Month Ended: 11/30/2015

Line	Proj	Description	Month Actual	YTD Actual	YTD Budget	YTD Variance	% Exp
Revenues							
90153		Franchise Fees	22,618.00	91,532.00	242,000.00	-150,468.00	37.8
90300		Interest - Solid Waste	0.00	759.45	1,800.00	-1,040.55	42.2
90301		Late Payment Fee	0.00	74.28	0.00	74.28	0
90650	062	Oil Grant 15/16	0.00	0.00	15,000.00	-15,000.00	0
90650	075	Oil Grant - 14/15	0.00	0.00	7,910.00	-7,910.00	0
90650	079	DOC Grant 15/16	0.00	0.00	15,000.00	-15,000.00	0
91003		Gate Tipping Fees	153,772.51	716,963.36	1,800,000.00	-1,084,036.64	39.8
91003	099	Gate Tipping Fees - Prior Yr	0.00	156.86	0.00	156.86	0
91004		Authority Service Fees	82,048.56	388,884.49	997,000.00	-608,115.51	39.0
91004	099	DNSWMA Tipping Fees - Prior Yr	0.00	78.91	0.00	78.91	0
91121		Misc Reimbursements	0.00	75.00	1,000.00	-925.00	7.5
91121	123	Bad Check Fee Reimb	0.00	50.00	100.00	-50.00	50.0
91129	065	DOC Grant 14/15	0.00	5,000.00	15,000.00	-10,000.00	33.3
Total Revenues			258,439.07	1,202,574.35	3,094,810.00	-1,892,235.65	38.86
10010		Payroll	-15,989.64	-87,870.93	-291,772.00	203,901.07	30.1
10012		Overtime	0.00	-73.90	-750.00	676.10	9.9
10015		Part-time/Temp	-1,929.51	-13,473.98	-18,000.00	4,526.02	74.9
10020		Retirement	-4,876.69	-27,246.33	-84,025.00	56,778.67	32.4
10030		Employee Benefits	-9,169.21	-45,959.57	-99,105.00	53,145.43	46.4
10033		Employee Life Insurance	-18.00	-101.40	-352.00	250.60	28.8
10035		Management Life Insurance	-150.93	-150.93	-501.00	350.07	30.1
10040		Worker's Compensation	-3,112.67	-15,563.35	-37,352.00	21,788.65	41.7
Total Salaries & Benefits			35,246.65	190,440.39	531,857.00	341,416.61	35.81
20121		Communications	-230.67	-1,782.08	-2,750.00	967.92	64.8
20140		Household Expense	-1,096.48	-2,191.50	-4,475.00	2,283.50	49.0
20150		Insurance-Office	0.00	0.00	-3,600.00	3,600.00	0
20152		Vehicle Insurance	-2,063.76	-2,063.76	-3,525.00	1,461.24	58.5
20155		Liability Insurance	0.00	-586.25	-2,345.00	1,758.75	25.0
20170		Maintenance-Equipment	0.00	0.00	-350.00	350.00	0
20171		Maintenance-Vehicles	0.00	-422.88	-800.00	377.12	52.9
20175		Maintenance-Computers	0.00	0.00	-554.00	554.00	0
20180		Maint-Structures/Improvements & TS Maint	-140.00	-152.93	-700.00	547.07	21.8
20200		Memberships	0.00	-6,000.00	-7,600.00	1,600.00	78.9
20221		Printing	-93.76	-94.35	-488.00	393.65	19.3
20221	062	Printing-Oil Grant 15/16	0.00	0.00	-500.00	500.00	0
20221	065	Printing - DOC 14/15	0.00	0.00	-4,500.00	4,500.00	0
20221	075	Printing - Oil Grant 14/15	0.00	-93.28	-1,000.00	906.72	9.3
20221	079	Printing - DOC Grant 15/16	0.00	0.00	-3,000.00	3,000.00	0
20223		Postage	-101.44	-457.44	-1,400.00	942.56	32.7
20224		Office Supplies	-692.00	-1,572.99	-5,000.00	3,427.01	31.5
20227		Books/Subscriptions	0.00	0.00	-109.00	109.00	0
20230		Prof Serv-Co/City	-35.75	-1,490.91	-10,000.00	8,509.09	14.9

Statement of Revenues and Expenditures

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Statement of Month Ended: 11/30/2015

Fund: 422 Solid Waste
 Dept: 421 Solid Waste

Line	Proj	Description	Month Actual	YTD Actual	YTD Budget	YTD Variance	% Exp
20231		Prof Serv	0.00	-1,750.45	-20,400.00	18,649.55	8.6
20232		Prof Serv-Well Monitoring	0.00	-3,070.00	-25,000.00	21,930.00	12.3
20232	002	Data Processing - Software	-39.85	-53.59	-500.00	446.41	10.7
20233		Audit	0.00	0.00	-9,500.00	9,500.00	0
20234		Legal Counsel	-527.80	-4,568.20	-13,000.00	8,431.80	35.1
20235		Treasurer	-640.00	-2,800.00	-5,000.00	2,200.00	56.0
20236		Security	0.00	-72.00	-500.00	428.00	14.4
20237		Credit Card Service Fees	-1,031.89	-5,947.26	-13,500.00	7,552.74	44.1
20238		TS Collection	-1,848.00	-7,945.56	-28,000.00	20,054.44	28.4
20239		Transfer Station Operations	-171,145.87	-513,689.24	-1,840,000.00	1,326,310.76	27.9
20239	001	Post Closure Maintenance	0.00	-777.82	-8,000.00	7,222.18	9.7
20240		Advertising/Publications	-325.60	-325.60	-1,000.00	674.40	32.6
20240	062	Advertising-Oil Grant 15/16	0.00	0.00	-2,000.00	2,000.00	0
20240	065	Advertising - DOC 14/15	0.00	0.00	-3,000.00	3,000.00	0
20240	075	Advertising - Oil Grant 14/15	-114.70	-1,310.90	-2,476.00	1,165.10	52.9
20240	079	Advertising - DOC Grant 15/16	0.00	-34.80	-3,000.00	2,965.20	1.2
20250		Lease of Equipment	-293.58	-1,340.64	-2,880.00	1,539.36	46.6
20251		Lease - Gasquet Transfer Station	0.00	0.00	-662.00	662.00	0
20270		Minor Equipment	0.00	0.00	-1,000.00	1,000.00	0
20275		Small Tools	0.00	0.00	-750.00	750.00	0
20280		Delivery Service	0.00	-120.00	-600.00	480.00	20.0
20281		Household Hazardous Waste Event	-1,050.00	-29,772.00	-32,000.00	2,228.00	93.0
20283		Community Clean-up	0.00	-1,807.80	-5,500.00	3,692.20	32.9
20285		Special Dept Expense	0.00	-624.00	-1,500.00	876.00	41.6
20285	062	Spec Dept Exp-Oil Grant 15/16	-1,898.48	-1,898.48	-6,500.00	4,601.52	29.2
20285	065	Spec Dept Exp - DOC 14/15	-140.00	-140.00	-4,500.00	4,360.00	3.1
20285	068	Spec Dept Exp - DOC 13/14	0.00	-2,460.00	0.00	-2,460.00	0
20285	075	Spec Dept Exp - Oil Grant 14/15	0.00	0.00	-4,434.00	4,434.00	0
20285	079	Special Dept Exp - DOC Grant 15/16	0.00	0.00	-4,500.00	4,500.00	0
20286		Cash Over/Under	27.49	148.17	-175.00	323.17	-84.7
20288		City Collections	0.00	-6,233.84	-16,500.00	10,266.16	37.8
20290		Travel	0.00	-42.55	-3,000.00	2,957.45	1.4
20290	062	Travel-Oil Grant - 15/16	0.00	0.00	-2,500.00	2,500.00	0
20290	065	Travel - DOC 14/15	0.00	0.00	-3,000.00	3,000.00	0
20290	079	Travel - DOC Grant 15/16	0.00	-1,441.50	-4,500.00	3,058.50	32.0
20297		Vehicle Fuel	-104.87	-591.59	-1,600.00	1,008.41	37.0
20301		State Fees	-30,625.00	-30,625.00	-73,431.00	42,806.00	41.7
Total Services & Supplies			214,212.01	636,203.02	2,197,104.00	1,560,900.98	28.96
30490		Depreciation Expense	0.00	0.00	-98,000.00	98,000.00	0
Total Other Charges			0.00	0.00	98,000.00	98,000.00	0.00
70530	025	Interfund-Repayment to County	0.00	-158,745.93	-202,275.00	43,529.07	78.5
70530	199	Interfund-Cost Plan	-4,507.00	-22,535.00	-53,449.00	30,914.00	42.2
70800		ARC Payment OPEB	0.00	0.00	-11,125.00	11,125.00	0

Statement of Revenues and Expenditures

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Fund: 422 Solid Waste
 Dept: 421 Solid Waste

Statement of Month Ended: 11/30/2015

Line	Proj	Description	Month Actual	YTD Actual	YTD Budget	YTD Variance	% Exp
70910	123	Op Trans Out Bad Check Fee	0.00	-25.00	0.00	-25.00	0
Total Intra/Inter Fund Transfers			4,507.00	181,305.93	266,849.00	85,543.07	67.94
81000		Contingency	0.00	0.00	-1,000.00	1,000.00	0
Total Other Charges			0.00	0.00	1,000.00	1,000.00	0.00
Total Expenditures			253,965.66	1,007,949.34	3,094,810.00	2,086,860.66	32.57
Net Cost			4,473.41	194,625.01	0.00	194,625.01	

Del Norte Solid Waste Management Authority
A/R Aging Summary
 As of January 5, 2016

	Current	1 - 30	31 - 60	61 - 90	> 90	TOTAL
Affordable Home & Rental Rep.	12.79	35.13	0.00	0.00	0.00	47.92
Agricultural Commission(solid waste only)	36.96	73.67	0.00	0.00	0.00	110.63
Aladdin Realty	0.00	7.11	22.74	0.00	0.00	29.85
Atlas Field Services, Inc.	364.46	0.00	0.00	0.00	0.00	364.46
Babich Construction	154.95	0.00	0.00	0.00	0.00	154.95
Bart Kast Builders	36.96	0.00	0.00	0.00	0.00	36.96
Benner Mini Storage	34.12	0.00	0.00	0.00	0.00	34.12
Borges Dalry	275.76	205.43	305.12	0.00	0.00	786.31
Brown, Hector	902.99	0.00	0.00	0.00	0.00	902.99
Cal-Ore LIFE FLIGHT	82.44	3.55	0.00	0.00	0.00	85.99
Cal-Trans	56.11	0.00	0.00	0.00	0.00	56.11
California Auto Image	231.70	0.00	0.00	0.00	0.00	231.70
California Dept. Parks & Rec.	449.78	0.00	0.00	0.00	0.00	449.78
Castlerock Countertop's	11.37	0.00	0.00	0.00	0.00	11.37
Certified Construction	0.00	0.00	0.00	0.00	6.90	6.90
Certified Plumbing Co.	0.00	0.00	0.00	0.00	12.76	12.76
Cetnar Construction Inc.	54.01	0.00	0.00	0.00	0.00	54.01
City of Crescent City.	82.62	166.95	0.00	0.00	0.00	249.57
Community Asst. Network	21.32	0.00	0.00	0.00	0.00	21.32
Cornerstone Assembly of God	55.44	0.00	0.00	0.00	0.00	55.44
Crescent Ace Hardware.	488.99	0.00	0.00	0.00	0.00	488.99
Crescent City KOA	54.01	0.00	0.00	0.00	0.00	54.01
Crescent Fire Protection Dist.	26.72	0.00	0.00	0.00	0.00	26.72
Crescent Senior Estates	64.73	0.00	0.00	0.00	0.00	64.73
Custom Construction	0.00	29.85	0.00	0.00	0.00	29.85
Del Norte Realty	52.31	0.00	0.00	27.60	0.00	79.91
Del Norte Roofing	35.53	0.00	0.00	0.00	0.00	35.53
Del Norte Triplicate/WesternCom	0.00	0.00	19.90	0.00	0.00	19.90
DN Unified School District	89.25	0.00	0.00	0.00	0.00	89.25
Elk Valley Casino	9.95	0.00	0.00	0.00	0.00	9.95
Elk Valley Storage	79.60	0.00	0.00	0.00	0.00	79.60
Ellers Fort Dick Market	346.84	0.00	0.00	0.00	0.00	346.84
Frank's Refrigeration	180.53	0.00	0.00	0.00	0.00	180.53
G. H. Outreach	268.00	0.00	0.00	0.00	0.00	268.00
Gasquet Mobile Home Park	43.98	0.00	0.00	0.00	0.00	43.98
Golden State Construction	150.68	0.00	0.00	0.00	0.00	150.68
GR Construction	36.96	0.00	0.00	0.00	0.00	36.96
Green Scapes	14.57	0.00	0.00	0.00	0.00	14.57
Griffin's Furniture Outlet	256.13	0.00	0.00	0.00	0.00	256.13
Hambro/Waste Solutions Group	33.05	0.00	0.00	0.00	0.00	33.05
Hank's Hauling	135.04	0.00	0.00	0.00	0.00	135.04
Hartley Construction	305.62	0.00	0.00	0.00	0.00	305.62
HASP / Jordan Recovery Centers	93.82	0.00	0.00	0.00	0.00	93.82
Hemmingsen Contracting Company	147.84	0.00	0.00	0.00	0.00	147.84
Hintz Construction	0.00	0.00	0.00	0.00	127.60	127.60
Hiouchi Community Fellowship	7.10	14.20	0.00	0.00	0.00	21.30
Investment Realty	160.86	0.00	0.00	0.00	0.00	160.86
Kirkland's Lawn & Yard Service	180.12	0.00	0.00	0.00	0.00	180.12
Kraft, Tom & Patti	203.27	0.00	0.00	0.00	0.00	203.27
Larson Services	103.76	36.96	0.00	0.00	0.00	140.72
LNL Design and Construction	61.12	0.00	0.00	0.00	0.00	61.12
Madrone Court	49.75	0.00	0.00	0.00	0.00	49.75
Malloroy Construction	8.60	0.00	0.00	0.00	0.00	8.60
Mark Wooding Construction	0.00	0.00	0.00	0.00	-120.00	-120.00
Mastaloudis Homes Inc.	102.35	0.00	0.00	0.00	0.00	102.35
McCullough Construction, Inc.	0.00	169.16	0.00	0.00	0.00	169.16
Ming Tree Real Estate	0.00	0.00	0.00	0.00	-16.10	-16.10
Mountain Power Tree Co	59.50	0.00	0.00	0.00	0.00	59.50
Mow Blow and Go	97.05	0.00	0.00	0.00	0.00	97.05
Murray Construction	115.15	0.00	0.00	0.00	0.00	115.15
New Dawn Support Services	168.38	18.92	0.00	0.00	0.00	187.30
Niehoff Construction	38.82	102.35	0.00	0.00	0.00	141.17
Norbury Construction *CLOSED*	0.00	0.00	0.00	0.00	116.70	116.70
North Coast Properties	9.95	0.00	0.00	0.00	0.00	9.95
North Woods Realty	7.11	0.00	0.00	0.00	0.00	7.11
Northridge Electric	81.02	0.00	0.00	0.00	0.00	81.02

Del Norte Solid Waste Management Authority
A/R Aging Summary
As of January 5, 2016

	Current	1 - 30	31 - 60	61 - 90	> 90	TOTAL
Pacific Northwest Physical Therapy	15.64	0.00	0.00	11.87	0.00	27.51
Pappas Dry Wall	392.33	0.00	0.00	0.00	0.00	392.33
Parkway Feed	98.08	0.00	0.00	0.00	0.00	98.08
Pebble Beach Apartments	182.99	0.00	0.00	0.00	0.00	182.99
Pelican Bay Evangelical Free Church	28.14	0.00	0.00	0.00	0.00	28.14
Plunkett's Family Painting	79.60	0.00	0.00	0.00	0.00	79.60
Porter's Trucking *CLOSED*	0.00	0.00	0.00	0.00	2,033.84	2,033.84
Ray's Mobile Home Service	98.09	0.00	0.00	0.00	0.00	98.09
Recology Del Norte (Franchise)	104,589.16	0.00	0.00	0.00	0.00	104,589.16
Recology Del Norte (Prison)	13,711.79	0.00	0.00	0.00	0.00	13,711.79
Recology Del Norte Fran Fees	20,803.00	0.00	0.00	0.00	0.00	20,803.00
Red Sky Roofing	8,813.27	5,455.72	8,961.36	0.00	0.00	23,230.35
Redwood Community Action Agency	78.17	89.55	0.00	0.00	0.00	167.72
Redwood National Park	437.93	0.00	0.00	0.00	0.00	437.93
Reservation Ranch	702.22	1,101.66	1,066.12	0.00	0.00	2,870.00
Richard Brown Construction	24.17	0.00	0.00	0.00	0.00	24.17
Richterich & Jones Const	342.25	0.00	0.00	0.00	0.00	342.25
Ritchie Homes	25.59	0.00	0.00	0.00	0.00	25.59
Rogers, Luu T.	34.12	0.00	0.00	0.00	0.00	34.12
Roy Rook Construction	31.27	0.00	0.00	0.00	0.00	31.27
Seawood Village	2,953.59	0.00	0.00	0.00	0.00	2,953.59
Shangri-La Trailer Court	58.29	0.00	0.00	0.00	0.00	58.29
Smith River Equipment	24.17	0.00	0.00	0.00	0.00	24.17
Sprint Courier Service	61.13	29.85	0.00	0.00	0.00	90.98
Steel	78.18	24.39	0.00	0.00	0.00	102.57
Stephen F White Gen.Cont. Inc.	118.43	0.00	0.00	0.00	0.00	118.43
Stone Roofing	5,569.44	5,147.26	0.00	0.00	0.00	10,716.70
Swanson, Ray C. Construction	177.68	0.00	0.00	0.00	0.00	177.68
Tab & Associates	255.77	0.00	0.00	0.00	0.00	255.77
Tim Haban Construction	193.33	0.00	0.00	0.00	0.00	193.33
Van Arsdale Construction	139.31	0.00	0.00	0.00	0.00	139.31
Van Nocker's Cleaning	28.42	0.00	0.00	0.00	0.00	28.42
Wigley Contracting	31.27	0.00	0.00	0.00	0.00	31.27
Winn's Maintance Service	0.00	0.00	0.00	0.00	-25.00	-25.00
Yurok Tribe	259.34	0.00	0.00	0.00	0.00	259.34
TOTAL	167,668.00	12,711.71	10,375.24	39.47	2,136.70	192,931.12

DAILY TICKET REPORT				
DNSWMA TRANSFER STATION				
MONTH: December 2015				
Date	BEGIN	END	VOIDED TICKETS	TICKET COUNT
1	852871	853028		158
2	853029	853140		112
3	853141	853192		52
4	853193	853330	1	137
5	853331	853490	1	159
6	853491	853614	1	123
7	853615	853690		76
8	853691	853799		109
9	853800	853937		138
10	853938	854039	3	99
11	854040	854123	1	83
12	854124	854207		84
13	854208	854289		82
14	854290	854423	1	133
15	854424	854623	2	198
16	854624	854803	1	179
17	854804	854847		44
18	854848	854979	1	131
19	854980	855175	1	195
20	855176	855265	1	89
21	855266	855371		106
22	855372	855516		145
23	855517	855662	2	144
24	855663	855752		90
25	CLOSED			
26	855753	855969		217
27	855970	856089		120
28	856090	856339	1	249
29	856340	856526	1	186
30	856527	856701	2	173
31	856702	856917	2	214
TOTAL			22	4025

DNSWMA KLAMATH TRANSFER STATION CASH DECEMBER 2015			
Date	Amount to		TOTAL CASH AMOUNT
	422-421	91004	
December 2, 2015	333.44		\$ 333.44
December 6, 2015	506.52		\$ 506.52
December 9, 2015	364.03		\$ 364.03
December 13, 2015	247.92		\$ 247.92
December 16, 2015	177.87		\$ 177.87
December 20, 2015	320.80		\$ 320.80
December 23, 2015	156.10		\$ 156.10
December 27, 2015	536.71		\$ 536.71
December 30, 2015	297.91		\$ 297.91
TOTAL	2,941.30		\$ 2,941.30

DNSWMA											
KLAMATH TRANSFER STATION - DEPOSITS											
December-2015											
Date	Cash	Checks	Deposit	Over / Short	Sales	Sales	TOTAL	Charges	Tickets		
December 2, 2015	315.76	17.68	333.44	8.62	324.82	333.44		0.00	18		
December 6, 2015	480.46	26.06	506.52	6.00	500.52	506.52		0.00	36		
December 9, 2015	317.55	46.48	364.03	0.30	363.73	364.03		0.00	19		
December 13, 2015	247.92	0.00	247.92	4.76	243.16	247.92		0.00	21		
December 16, 2015	169.27	8.60	177.87	0.00	177.87	177.87		0.00	13		
December 20, 2015	320.80	0.00	320.80	8.60	312.20	320.80		0.00	26		
December 23, 2015	156.10	0.00	156.10	0.00	156.10	156.10		0.00	13		
December 27, 2015	380.16	156.55	536.71	6.39	530.32	536.71		0.00	31		
December 30, 2015	201.83	96.08	297.91	0.05	297.86	297.91		0.00	24		
TOTAL	\$2,589.85	\$ 351.45	\$ 2,941.30	\$ 34.72	\$ 2,906.58	\$ 2,941.30		\$ -	201		

DNSWMA GASQUET TRANSFER STATION - CASH Dec-15		
Date	Amount to 422-421 91004	TOTAL CASH AMOUNT
December 5, 2015	195.37	\$ 195.37
December 12, 2015	177.04	\$ 177.04
December 19, 2015	249.63	\$ 249.63
December 26, 2015	286.01	\$ 286.01
TOTAL	908.05	\$ 908.05

DNSWMA									
GASQUET TRANSFER STATION - DEPOSITS									
December-2015									
Date	Cash	Checks	TOTAL Deposit	Over / Short	Sales	TOTAL Sales	Charges	Tickets	
December 5, 2015	149.42	45.95	195.37	0.01	195.36	195.37	0.00	21	
December 12, 2015	159.84	17.20	177.04	8.70	168.34	177.04	43.98	17	
December 19, 2015	183.61	66.02	249.63	0.00	249.63	249.63	0.00	25	
December 26, 2015	175.60	110.41	286.01	0.40	285.61	286.01	8.60	27	
TOTAL	\$ 668.47	\$ 239.58	\$ 908.05	\$ 9.11	\$ 898.94	\$ 908.05	\$ 52.58	90	

AUTHORITY REVENUE REPORT August 2015

2015/2016

Source 2014/2015
 Authority Actual Annual
 Service Fees \$ 1,002,778.17

	Actual/Year		Comparison FYE15 & FYE16	Actual/Year		Over Budget
	Actual/Year	Budget/Year		Actual/Year	Over Budget	
July	\$ 96,004.21	\$ (1,389.79)		\$ 94,614.42	\$ 11,531.09	
August	\$ 89,437.87	\$ 2,718.16		\$ 92,156.03	\$ 9,072.70	
September	\$ 84,704.53	\$ 7,278.67		\$ 91,983.20	\$ 8,899.87	
October	\$ 83,098.23	\$ 7,306.85		\$ 90,405.08	\$ 7,321.75	
November	\$ 72,572.43	\$ 2,069.22		\$ 74,641.65	\$ (8,441.68)	
December	\$ 76,859.33	\$ (3,776.33)		\$ 73,083.00	\$ (10,000.33)	
January	\$ 84,970.65	\$ -				
February	\$ 77,883.08	\$ -				
March	\$ 82,827.13	\$ -				
April	\$ 79,373.56	\$ -				
May	\$ 85,383.19	\$ -				
June	\$ 89,663.96	\$ -				
Total	\$ 1,002,778.17	\$ 14,206.78		\$ 516,883.38	\$ 18,383.38	3.56%

Ahead of budget

6.5

AUTHORITY REVENUE REPORT August 2015

Source 2014/2015 **2015/2016**

Franchise Fee Actual Annual

		Budget/Month	Budget/Year
		\$ 20,166.67	\$ 242,000.00
	Comparison FY 13/14	Actual/Month	Over/Under Budget
July	\$ 380.00	\$ 19,120.00	\$ (666.67)
August	\$ 3,679.00	\$ 20,447.00	\$ 3,959.33
September	\$ 4,713.00	\$ 20,575.00	\$ 5,121.33
October	\$ 1,466.00	\$ 21,152.00	\$ 2,451.33
November	\$ 1,888.00	\$ 19,499.00	\$ 1,220.33
December	\$ 1,403.00	\$ 19,400.00	\$ 636.33
January	\$ -	\$ 19,301.00	
February	\$ -	\$ 20,531.00	
March	\$ -	\$ 19,833.00	
April	\$ -	\$ 20,819.00	
May	\$ -	\$ 19,868.00	
June	\$ -	\$ 23,504.00	
Total	\$ 13,529.00	\$ 244,049.00	\$ 12,722.00

Ahead of budget: 9.51%