

Field Activity Report



environmental management, inc.

300 Frank H. Ogawa Plaza, Suite 510, Oakland, CA 94612
 Tel: (510) 839-0688 Fax: (510) 839-4350

Page 1 of 2

Date: 5/12/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Temperature: 70's - 80's

Weather: Clear

Site Conditions: Light winds

NORTHGATE PERSONNEL ON-SITE

Jim Carolan + David Behnke (at DAQEM from 8:00 to 16:00)
Jim Hampton provides oversight.

VISITORS

Name	Company/Agency	Time Arrived	Time Left

CONTRACTORS

Primary Contractor Name: ENTACT Phone No.: 307-359-1141
 Supervisor: Bob Ainslie Task: Manganese Tailings Removal Task

Company	No. of Supervisors	No. of Workers	Remarks
<u>ENTACT</u>	<u>1</u>	<u>10</u>	<u>Manganese</u>
<u>Las Vegas Paving</u>	<u>1</u>	<u>2</u>	<u>Parcel Remediation</u>

EQUIPMENT (not listed on page 2 of this summary report).

ENTACT: 2 CAT 345C excavators, 1 Dozer Dow, 2 water trucks,
2 CAT 14H graders (not in use)

Las Vegas Paving: One front end loader, 1 rubber tire backhoe
1 water truck.

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Date: 3/11/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

EXCAVATION ACTIVITIES SUMMARY

Excavation Summary:

Excavation Contractor:

ENTACT

Excavation Equipment:

Two CAT 345C Excavators
1 Dozer D6W

Comments:

- Excavators mixed water with manganese tailings and transported 123 loads of material to Apex Landfill
- ENTACT controlled dust effectively all day.

Waste Transport and Disposal Summary:

Transporter(s):

KMGA, Las Vegas Paving

Transporter Equipment:

No. 2+	Type: 2 trailer bottom dump
No.	Type: + side dumps
No.	Type:

Waste Type/Classification:

Soil/Non-Hazardous Waste, Waste Profile No. 3825104167

Disposal Facility:

Apex Landfill, 13550 North US Highway 93, Las Vegas, Nevada

Comments:

- ENTACT using KMGA Transport LLC Bottom Dump, Double Trailers / Las Vegas Paving Side Dumps

General Activities Summary:

- ENTACT transported 123 loads to Apex Landfill
- Las Vegas Paving onsite to complete demobilization activities for parcel remediation.
- ENTACT transporter had incident on Highway 15 (manganese tailings released to highway surface). See attached initial notification. Incident report and supporting documentation to be submitted to Northgate by ENTACT

Print Name: Jim Carolan

Signature:

From: [Erik Gehringer](#)
To: [Jim Carolan](#)
Cc: [Joshua Carroll](#); [Amy Hearnberger](#)
Subject: RE: Tronox Tailings Project
Date: Wednesday, May 12, 2010 6:30:18 PM

Jim,
We will put together an incident report and will get you a copy as soon as possible.
Thanks,
Erik

From: Jim Carolan [jim.carolan@ngem.com]
Sent: Wednesday, May 12, 2010 9:26 PM
To: Erik Gehringer
Subject: RE: Tronox Tailings Project

Thanks for the notification Erik,

Do you guys produce an incident report for these situations? If you do, we probably need a copy of that report and the supporting documentation submitted to us as soon as is reasonable.

On a related note, we probably need to work out a notification system---I am quite sure that Northgate and Tronox needs to be notified of these incidents pretty quickly.

I am available for a call tomorrow evening after class (around 4 pm) to discuss. I will let you know if Northgate and Tronox has any specific questions.

Thanks, Jim

From: Erik Gehringer [<mailto:egeringer@entact.com>]
Sent: Wednesday, May 12, 2010 6:21 PM
To: Jim Carolan
Subject: Tronox Tailings Project

Jim,
I wanted to let you know that today we had a problem with one of the trucks. On the way to the landfill, one of the gates opened and some material spilled onto I-15. Immediately following the incident, the material was removed from the roadway and placed back into the truck and hauled to the landfill. NDOT was present to assist with traffic control while the cleanup occurred. It appears that the operator inadvertently moved the gate release switch. We have taken several actions to ensure that this type of incident does not happen again including securing the gates with secondary latches to prevent the gates from accidentally opening. I'll be available to answer any questions that you have on this.

Thanks
Erik

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Date: 5/21/2010
 Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal Project No.: 2027.08, Task 10
 Client Name: Tronox LLC
 Weather: Warm to Hot Temperature: Mid to high 90's
 Site Conditions: High winds, gusts to 30mph in the afternoon.

NORTHGATE PERSONNEL ON-SITE

Jim Carolan

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>NDEP Representative</u>	<u>~ 7:00</u>	<u>~ 16:30</u>

CONTRACTORS

Primary Contractor Name: ENTACT Phone No.: 307-359-1141
 Supervisor: Bob Ainslie Task: Manganese Tailings Removal Task

Company	No. of Supervisors	No. of Workers	Remarks
<u>ENTACT</u>	<u>2</u>	<u>9</u>	

EQUIPMENT (not listed on page 2 of this summary report).

see page 2

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Date: 5/21/2010
Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal Project No.: 2027.08, Task 10
Client Name: Tronex LLC

EXACVATION ACTIVITIES SUMMARY

Excavation Summary:

Excavation Contractor: ENTACT
Excavation Equipment: 2 CAT 345 Excavators, 2 Dozers, 2 Water Trucks, 1 14ft Motor Grader, 1 street sweeper

Comments: 2 CAT excavator with thumb attachment and 1 end dump truck (i.e. change order) to handle concrete debris

Waste Transport and Disposal Summary:

Transporter(s): Assorted
Transporter Equipment: No. 1 Type: end dump; No. ~35 Type: bottom dump.
Waste Type/Classification: Soil/Non-Hazardous Waste, Waste Profile No. 3825104167
Disposal Facility: Apex Landfill, 13550 North US Highway 93, Las Vegas, Nevada

Comments:

General Activities Summary:

- ENTACT provided effective dust control despite high temperatures and high winds.
- ENTACT transported 143 loads of material to Apex Landfill.

Print Name: Jim Carolan Signature: Jim M Carolan



ENTACT
environmental factors in waste management

FIELD ACTIVITY DAILY LOG

DATE:

5/21

DAY:

PROJECT NAME: Tronox Tailings Removal Project

PROJECT NO.: E-7856

LOCATION: Henderson, NV

1.0 Summary of Construction Locations and Activities

loading out of B and C

2.0 Daily Production

truck loads 143
~~119~~

3.0 Equipment / Personnel Onsite

<u>Quantity</u>	<u>Type</u>	<u>Quantity</u>	<u>Type</u>
<u>2</u>	CAT 345 Excavators	<u>2</u>	Management Personnel
<u>2</u>	D6 Dozers	<u>4</u>	Equipment Operators
<u>2</u>	4,000 Gallon Water Trucks	<u>2</u>	Truck Drivers
<u>1</u>	12,000 Gallon Water Towers	<u>2</u>	Laborers
<u>1</u>	14H Motor Graders	<u>gate 1</u>	Other:
<u>1</u>	Street Sweeper		
<u>3</u>	Big Gun Sprinklers		Daily Activities Start Time: <u>600 AM</u>
	Other: _____		Daily Activities Stop Time: <u>600 PM</u>

4.0 Safety Related Topics (meetings, incidents, etc.):

Heat and wind

5.0 Incidents affecting Production:

WEATHER CONDITION SUMMARY

Sunny 90
windy

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

Extra Work Tag Attached:



PROJECT MANAGER: Bob Ainslie

SIGNATURE:

Bob Ainslie

DATE:

5/21

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Date: 5/26/2010

Recorded By: Jim Gordon

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: 70's - 80's

Site Conditions: Breezy to Windy

NORTHGATE PERSONNEL ON-SITE

Jim Gordon, Francisco Barron

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Derm Gordon</u>	<u>NDEP Representative</u>	<u>~6:30</u>	<u>~16:30</u>

CONTRACTORS

Primary Contractor Name: ENTACT

Phone No.: 307-359-1141

Supervisor: Bob Ainslie

Task: Manganese Tailings Removal Task

Company	No. of Supervisors	No. of Workers	Remarks
<u>ENTACT</u>	<u>2</u>	<u>9</u>	

EQUIPMENT (not listed on page 2 of this summary report).

see page 2

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Date: 5/28/200
Recorded By: Jim Carlson

Project Name: Manganese Tailings Removal Project No.: 2027.08, Task 10
Client Name: Tronox LLC

EXACVATION ACTIVITIES SUMMARY

Excavation Summary:

Excavation Contractor: ENTACT
Excavation Equipment: 2 CAT 345C Excavators 2 D6 Dozers
2 wheel trucks 1 14H Moho grader
1 street sweeper

Comments: /

Waste Transport and Disposal Summary:

Transporter(s): Assorted
Transporter Equipment: No. 135 Type: Bottom dump
No. Type:
No. Type:
Waste Type/Classification: Soil/Non-Hazardous Waste, Waste Profile No. 3825104167
Disposal Facility: Apex Landfill, 13550 North US Highway 93, Las Vegas, Nevada

Comments: see attached notification

General Activities Summary:

- ENTACT provided effective dust control throughout day
- ENTACT transported 158 loads of material to Apex.
- Bravo Trucking, an ENTACT trucking subcontractor, had an incident where manganese tailings were placed on a public right of way. See attached notification
- Northgate met at Apex Landfill to assist Republic with manifest scanning & uploading.

Print Name: Jim Carlson Signature: Jim Carlson



FIELD ACTIVITY DAILY LOG

DATE: 5/28
 DAY:

PROJECT NAME: Tronox Tailings Removal Project PROJECT NO.: E-7856
 LOCATION: Henderson, NV

1.0 Summary of Construction Locations and Activities
Working from A/C north to south

2.0 Daily Production
Truck loads 158

3.0 Equipment / Personnel Onsite

<u>Quantity</u>	<u>Type</u>	<u>Quantity</u>	<u>Type</u>
<u>2</u>	CAT 345 Excavators	<u>2</u>	Management Personnel
<u>2</u>	D6 Dozers	<u>4</u>	Equipment Operators
<u>2</u>	4,000 Gallon Water Trucks	<u>2</u>	Truck Drivers
<u>1</u>	12,000 Gallon Water Towers	<u>2</u>	Laborers
<u>1</u>	14H Motor Graders	<u>1</u>	Other: <u>gate</u>
<u>1</u>	Street Sweeper		
<u>3</u>	Big Gun Sprinklers		Daily Activities Start Time: <u>6 AM</u>
	Other: _____		Daily Activities Stop Time: <u>6 PM</u>

4.0 Safety Related Topics (meetings, incidents, etc.): _____

5.0 Incidents affecting Production: see attached summary regarding Truck incident

WEATHER CONDITION SUMMARY
Sunny 75
windy 15/20

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

Extra Work Tag Attached:

PROJECT MANAGER: Bob Ainslie

SIGNATURE: [Signature] DATE: 5/28

From: [Francisco Barron](#)
To: jim.carolan@ngem.com
Subject: Trucker Incident
Date: Friday, May 28, 2010 8:49:30 PM

Hello Jim,

At approximately 17:35 on 05/28/2010, Bob Ainslie received a phone call that a truck driver had intentionally dumped the remains of a load on the side of the road near Apex. Why the truck driver did this is still unclear. Bob and I headed out to the site to assess the situation, the site had already been cleaned up by the time we arrived. Bob and I assessed the site and we were satisfied with the clean up. A loader and an end dump were used to clean up the site and the material was taken to Apex to dispose of properly. Per Bob's request, there will be a full written report by the trucking company and there will also be a 06:00 meet on 06/01/2010 to discuss the incident with all the truck drivers and contractors. Unfortunately, Bob will not be able to attend the meeting on Tuesday due to a death in the family.

Let me know if you need anymore information.

Francisco Barron &nb sp;

From: [Clinker, Mark](#)
To: [Jim Carolan](#)
Cc: [Tidwell, Robert](#); [Hays, Fred](#)
Subject: RE: Incident 052810 - Status
Date: Monday, May 31, 2010 11:18:04 AM
Attachments: [Tronox_before_052810.JPG](#)
[Tronox_2_before_052810.JPG](#)
[Tronox_3_052810.JPG](#)
[Tronox_4_052810.JPG](#)
[Tronox_005.jpg](#)
[Tronox_006.jpg](#)

Jim,

Friday afternoon we had an incident that was discovered by one of our employees late afternoon, investigated and resolved by 8:00 pm.

Here is a short version of the situation:

- One of our mechanics called in on his way home at approximately 2:30 pm and reported that he noticed some material that looked similar to Tronox tailings along the south-bound side of the frontage road that parallels I-15 to Las Vegas Boulevard.
- Our Landfill Supervisor responded, confirmed what the material was and checked with the Scale Attendants on any trucks leaving the site with abnormally high tare weight
- We were able to confirm that a truck did in fact leave with material remaining in the truck and when the scale attendants brought it to the drivers attention, he stated he would clean it out when he returned with the next load (Bravo Trans/ H&R Trucking/H&R Truck #25/Transaction Time 1:26 pm...I believe this is all correct) so we processed his paperwork and manifest accordingly and checked the truck out.
- Bravo/H&R was contacted and immediately dispatched a crew to clean up the material
- I called Entact at 5:18 pm on Friday and left word to call me and have not had the opportunity to give them a heads-up on this.
- The Local Trucking Company responded immediately and admirably and we understand the driver was fired on the spot; they showed up immediately with the equipment, manpower and supervision to totally clean up this mistake and in fact asked us not to file any report on this incident.
- Apex Night Supervisor verified that the area was totally cleaned and we have attached photo's of the before and after for your reference. The best we can determine is the material was there for less than 7 hours and was totally removed and cleaned-up.
- Please let us know if you should need any additional information on this

I observed the area was clean on Friday night and did not have a chance to collect all the above information till this morning. Please call with any questions.

Mark Clinker

General Manager
Apex Regional Landfill
Republic Services, Inc.
PO Box 751600
Las Vegas, Nevada 89165
Ph. # 702-599-5901 mobile 954-232-9291

From: Jim Carolan [mailto:jim.carolan@ngem.com]
Sent: Thursday, May 27, 2010 10:01 AM