

Field Activity Report



environmental management, inc.

Page 1 of 2

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

Date: 4/29/2010
 Recorded By: Jim Carolan

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

Client Name: Tronox LLC

Weather: Partly Cloudy Temperature: 70's

Site Conditions: Light to moderate winds

NORTHGATE PERSONNEL ON-SITE

Jim Carolan

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>McGinley & Associates (NDEP rep)</u>	<u>1100</u>	<u>1200</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>1</u>	<u>5</u>	

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

Hand operated trencher, front end loader, walk truck

Field Activity Report



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Date: 4/29/2010
Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal
Client Name: Tronox LLC

Project No.: 2027.08, Task 10

EXACVATION ACTIVITIES SUMMARY

Excavation Summary:

Excavation Contractor: ENTACT
Excavation Equipment:

Comments: NA

Waste Transport and Disposal Summary:

Transporter(s):
Transporter Equipment:

No.	Type:

Waste Type/Classification:
Disposal Facility:

Soil/Non-Hazardous Waste, Waste Profile No. 3825104167
Apex Landfill, 13550 North US Highway 93, Las Vegas, Nevada

Comments: NA

General Activities Summary:

Mobilization of SWPPP materials, portable toilets, water tank, security shack, and minor equipment.

Print Name: Jim Carolan

Signature: James M Carolan

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: 4/30/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Partly cloudy

Temperature: 60's - 70's

Site Conditions: Breezy in the morning

NORTHGATE PERSONNEL ON-SITE

Jim Carolan

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>NA</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>1</u>	<u>7</u>	

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

Front end loader, water truck, ditch witch

Field Activity Report



environmental management, inc.

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Tel: (510) 839-0688 Fax: (510) 839-4350

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Date: 4/30/2010
Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal
Client Name: Tronox LLC

Project No.: 2027.08, Task 10

EXACVATION ACTIVITIES SUMMARY

Excavation Summary:

Excavation Contractor: ENTACT
Excavation Equipment:

Comments: None

Waste Transport and Disposal Summary:

Transporter(s):
Transporter Equipment:

No. Type:
No. Type:
No. Type:

Waste Type/Classification:
Disposal Facility:

Soil/Non-Hazardous Waste, Waste Profile No. 3825104167
Apex Landfill, 13550 North US Highway 93, Las Vegas, Nevada

Comments: None

General Activities Summary:

- Meet with Tronox staff to accomodate requirements of groundbreaking permits, power drop to security shack, exclusion zone delineations, etc.
- Installation of temp fence/silt fence along TIMET property fence adjacent to manganese tailings pile.
- Knock down portion of berm north of manganese tailings pile
- Clean out terminus of beta ditch and install SWPPP measures
- Import geosynthetic filter fabric onto site
- Install security shack

Print Name: Jim Carolan

Signature: James M Carolan

Field Activity Report



environmental management, inc.

300 Frank H. Ogawa Plaza, Suite 510, Oakland, CA 94612
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Date: 5/1/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: 70's

Site Conditions: ~~Clear~~ CALM

NORTHGATE PERSONNEL ON-SITE

Jim Carolan

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>NA</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>1</u>	<u>7</u>	

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

Water truck, Front end loader

Field Activity Report



environmental management, inc.

300 Frank H. Ogawa Plaza, Suite 510, Oakland, CA 94612
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Date: 5/1/2010
Recorded By: Jim Cardan

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:

Comments: NA

Waste Transport and Disposal Summary:

Transporter(s):
Transporter Equipment: No. Type:
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: NA

General Activities Summary:

- ENTACT places geosynthetic liner fabric in SWPPP areas north of manganese tailings pile. ENTACT places import fill over fabric as part of SWPPP installation requirements
- ENTACT continues with general site mobilization activities

Print Name: Jim Cardan Signature: Jim M Cardan

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: 5/3/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal Project No.: 2027.08, Task 10
 Client Name: Tronox LLC
 Weather: Clear Temperature: 70's to 80's
 Site Conditions: Calm

NORTHGATE PERSONNEL ON-SITE

Jim Carolan

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>NDEP representative (McGinley & Asso)</u>	<u>900</u>	<u>1400</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>1</u>	<u>7</u>	

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

Walk truck, front end loader, excavator delivered onsite

Field Activity Report



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Tel: (510) 839-0688 Fax: (510) 839-4350

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Date: 5/3/200
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:

Comments: NA

Waste Transport and Disposal Summary:

Transporter(s):
Transporter Equipment: No. Type:
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: NA

General Activities Summary:

- ENTACT continues to construct exclusion zone fencing SWPPP BMP measures, gravel track out and decan pads, dust suppression sprinkler system etc.
- ENTACT continues with general mobilization activities

Print Name: Jim Carolan Signature: James M Carolan

Field Activity Report

May 4, 2010



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: May 4, 2010

Recorded By: Jim Gordon

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: 80's - 90's

Site Conditions: Light Breeze

NORTHGATE PERSONNEL ON-SITE

Jim Gordon

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>NDEP representative (McGinley & Assoc)</u>	<u>~ 1000</u>	<u>~ 1630</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>1</u>	<u>7</u>	

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

Two CAT 345C Excavators, Front end loader, water truck, street sweeper

Field Activity Report



environmental management, inc.

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

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Date: May 4, 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:

Comments: NA

Waste Transport and Disposal Summary:

Transporter(s):
Transporter Equipment: No. Type:
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: NA

General Activities Summary:

- Completion of manganese tailing sprinkle system
- General site mobilization activities
- Field meet with Tronox to modify transportation route north of manganese tailings pond.
- Saturation of north face of manganese tailings pond with sprinkle system/water truck. One excavator used to mix material (ie water and tailings) in preparation of off-haul

Print Name: Jim Carolan Signature: James M Carolan

Field Activity Report



environmental management, inc.

300 Frank H. Ogawa Plaza, Suite 510, Oakland, CA 94612
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Page 1 of 2

Date: MAY 6 2010
 Recorded By: DAVID T. BEHNKEN

Project Name: Manganese Tailings Removal Project No.: 2027.08, Task 10
 Client Name: Tronox LLC
 Weather: CLEAR Temperature: 70's
 Site Conditions: BREEZY IN MORNING, CALM DURING LATE AFTERNOON

NORTHGATE PERSONNEL ON-SITE

JIM CAROLAN (MANGANESE TAILINGS REMOVAL)
DAVID T. BEHNKEN (MANGANESE TAILING REMOVAL)
AXEL RIEKE (BUILDING SURVEY)
SONWEG (PRE CON SAMPLING)

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>DEVIN GORDON</u>	<u>NOEP REPRESENTATIVE (MCGINLEY & ASSOCIATES)</u>	<u>~ 600</u>	<u>~ 1630</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>5</u>	

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

TWO CAT 345C EXCAVATORS, 1 DOZEN D6N, 2 WATER TRUCKS

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 2 of 2

Date: MAY 6, 2010

Recorded By: DAVID T. BENKEN

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:

TWO CAT 345C EXCAVATORS

Comments: EXCAVATORS MIXED WATER / MANGANESE TAILINGS AND OFF-HAULED 37 LOADS OF MATERIAL TO APEX ENTACT WAS ABLE TO CONTROL DUST DURING MIXING AND LOADING TODAY.

Waste Transport and Disposal Summary:

Transporter(s): ENTACT

Transporter Equipment:

No. 8 Type: TWO TRAILER / SIDE DUMP
No. 4 Type: SINGLE TRAILER / END DUMP
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: ISSUES WITH TRUCKS, NOTICED BY DEVIN (NDEP) AND MENTIONED TO ENTACT.

- END DUMP TRAILERS NOT SEALED IN BACK
- TRAILER COVERS W/ HOLES AND LARGE RIPS.
- TRUCKS COMING ON SITE DIRTY.

ENTACT CONFIRMED THESE ISSUES WILL BE RESOLVED.

General Activities Summary:

- ENTACT MIXING WATER AND MANGANESE TAILINGS PILE.
- ENTACT LOADING AND OFF-HAULED 37 TRUCKS
- NORTHGATE (AXEL) COMPLETING SURVEY FOR PROPOSED FUTURE INDOOR AIR SAMPLING PROGRAM.
- ADDRESSED TRAFFIC ISSUES ALONG PROVER ROAD / TRUCKING ROUTE IN ORDER TO NOT RESTRICT PLANT PERSONNEL FROM ACCESS TO ROADS, PARKING LOTS, BUILDINGS, ETC.

Print Name:

DAVID T. BENKEN

Signature:

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 2 of 2

Date: MAY 7, 2010

Recorded By: DAVID T. BEANKEN

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

Comments: • EXCAVATORS MIXED WATER WITH MANGANESE TAILINGS AND OFF HAULED 38 LOADS OF MATERIAL TO APEX
• ENTACT CONTROLLED DUST THROUGHOUT THE WORK DAY

Waste Transport and Disposal Summary:

Transporter(s):

ENTACT

Transporter Equipment:

No. 3 Type: TWO TRAILER / SIDE DUMP

No. 6 Type: SINGLE TRAILER / END DUMP

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: • LESS TWO TRAILER / SIDE DUMP TRUCKS THAN EXPECTED BY ENTACT.
• TOTAL TODAY: 14 LOADS BY DOUBLE TRAILER SIDE DUMPS
24 LOADS BY SINGLE TRAILER END DUMPS.

General Activities Summary:

• ENTACT MIXING WATER AND MANGANESE TAILINGS PILE.
• ENTACT LOADED AND OFF-HAULED 43 TRUCKS LOADS.
• R.T. WOOD OF SPECTRUM GEOPHYSICS ON-SITE TO MARK OUT UTILITIES FOR BORE HOLE SAMPLING.

Print Name:

DAVID T. BEANKEN

Signature:

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: MAY 7, 2010
 Recorded By: DAVID T. BENNKEN

Project Name: Manganese Tailings Removal Project No.: 2027.08, Task 10
 Client Name: Tronox LLC
 Weather: CLEAR Temperature: 70's
 Site Conditions: BREEZY THROUGH NOON TO AFTERNOON

NORTHGATE PERSONNEL ON-SITE

DAVID T. BENNKEN

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>DEVIN GORDON</u>	<u>NOEP REPRESENTATIVE (M'GWINLEY & ASSOC.)</u>	<u>7:30</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>3</u>	<u>5</u>	<u>Corporate H&S OFFICER VISIT</u>

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

- TWO CAT 345C EXCAVATORS, 1 DOZEN D6N, 2 WATER TRUCKS, FUELING TRUCK.
- NEW WATER CANNON (BIG GUY) CONNECTED TO SPRINKLER SYSTEM FOR ADDITIONAL DUST CONTROL; IS WORKING VERY WELL
- NEW EQUIPMENT - ONE CAT 14H GRADER

Field Activity Report



environmental management, inc.

300 Frank H. Ogawa Plaza, Suite 510, Oakland, CA 94612
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Page 1 of 2

Date: MAY 8, 2010

Recorded By: DAVID T. BEHNKEN

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: CLEAR

Temperature: 70's - 80's

Site Conditions: NO BREEZE BEFORE NOON / BREEZY IN AFTERNOON

NORTHGATE PERSONNEL ON-SITE

DAVID T. BEHNKEN (MANGANESE TAILINGS REMOVAL)

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>DEVIN GORDON</u>	<u>NOEP REPRESENTATIVE (MCGINLEY & ASSOCIATES)</u>	<u>6:20</u>	<u>1:30</u>

CONTRACTORS

Primary Contractor Name: ENTACT

Phone No.: 307-359-1141

Supervisor: Bob Ainslie / JOSH CARROLL

Task: Manganese Tailings Removal Task

Company	No. of Supervisors	No. of Workers	Remarks
<u>ENTACT</u>	<u>2</u>	<u>10</u>	

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

TWO CAT 345C EXCAVATORS, 1 DOZEN D6W, 2 WATER TRUCKS,
 CAT 14H GRADER NOT IN USE.

Field Activity Report



environmental management, inc.

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

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Date: MAY 8, 2010
Recorded By: DAVID T. BEHNKEN

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

Comments: EXCAVATORS MIXED WATER WITH MANGANESE TAILINGS AND OFF HAULED 38 LOADS OF MATERIAL TO APEX
ENTACT CONTROLLED DUST THROUGHOUT THE DAY

Waste Transport and Disposal Summary:

Transporter(s): ENTACT
Transporter Equipment:

No.	<u>13</u>	Type:	<u>TWO TRAILER / BOTTOM DUMP</u>
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: ENTACT NOW USING KMG & TRANSPORT LLC BOTTOM DUMP DOUBLE TRAILERS. TWO TRUCK (FOUR TRAILERS) NEEDED PLASTIC LINING TO SEAL BOTTOM DUMP TRAILERS
THIS EVALUATION AND ACTION WAS APPROVED BY NDEP REP. DEVIN GORON

General Activities Summary:

- ENTACT MIXING WATER AND MANGANESE TAILINGS
- ENTACT LOADED AND OFF HAULED 38 LOADS OF MATERIAL TO APEX.
- SOIL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WERE SPRAYED WITH WATER TO LOCK DOWN DUST BEFORE ENTACT FINISHED WORK FOR THE DAY

Print Name: DAVID T. BEHNKEN

Signature: [Signature]

Field Activity Report



environmental management, inc.

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

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Date: 5/10/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal Project No.: 2027.08, Task 10
 Client Name: Tronox LLC
 Weather: Windy Temperature: 60's to 70's
 Site Conditions: High winds encountered all day & evening.

NORTHGATE PERSONNEL ON-SITE

Jim Carolan

VISITORS

Name	Company/Agency	Time Arrived	Time Left
Devin Gordon	NDER Representative (McGinley & Assoc.)	8:00	16:30

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
ENTACT	1	10	Manganese Tailings Removal
Las Vegas Paving	2	1	Parcel Remediation

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

ENTACT: Two CAT 345C Excavators, 1 Dozer DGW, 2 Water Trucks,
 CAT 14H Grader (Not in use)

LAS VEGAS PAVING: One Front end loader, 1 rubber tire backhoe, 1
 water truck.

Field Activity Report



300 Frank H. Ogawa Plaza, Suite 510, Oakland, CA 94612
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Date: May 10 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

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

Waste Transport and Disposal Summary:

Transporter(s):
Transporter Equipment: No. 17 Type: 2 Trailer / 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:
- ENTACT using KMG A Transport LLC Bottom Dump Double Trailers / Las Vegas Paving Side Dumps.

General Activities Summary:

- Las Vegas Paving mobilized onsite to complete parcel remediation LWP partially backfills scrape area H-02 in Parcel H with imported (and approved) fill.
- ENTACT mixes water & manganese tailings.
- ENTACT loaded and transported 75 loads of tails

Print Name: Jim Carolan Signature: Jim M C

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: 5/11/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal Project No.: 2027.08, Task 10
 Client Name: Tronox LLC
 Weather: Clear Temperature: _____
 Site Conditions: Breezy

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Jim Hampton, David Belanek

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 Tailings Removal</u>
<u>Las Vegas Paving</u>	<u>1</u>	<u>2</u>	<u>Price Remediation</u>

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

ENTACT: 2 CAT 345C excavators, 1 Dozer D6W, 2 Walk Trucks,
1 CAT 14H Grader (not in use)

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

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 2 of 2

Date: 5/11/2010
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 Doze D6w

Comments: • Excavators mixed water with manganese tailings and transported 99 loads of material to Apex Landfill.
• ENTACT controlled dust effectively all day.

Waste Transport and Disposal Summary:

Transporter(s):
Transporter Equipment: No. 19 Type: 2 trailers 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: • ENTACT using KMOA Transport LLC Bottom Dump Double Trailers / Las Vegas Paving Side Dumps

General Activities Summary:

• ENTACT transported 99 loads to Apex Landfill
• Las Vegas Paving onsite to complete demobilization activities for parcel remediation

Print Name: Jim Carolan Signature: Jim M Carolan

Field Activity Report



environmental management, inc.

300 Frank H. Ogawa Plaza, Suite 510, Oakland, CA 94612
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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.

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 2 of 2

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 coals 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. 2-1	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

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: 5/13/2010

Recorded By: Jim Carolyn

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: 70's - 80's

Site Conditions: Light winds

NORTHGATE PERSONNEL ON-SITE

Jim Carolyn & David Behnken (at DAQEM from 0730 to 1500)
Jim Hampton provides oversight.

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Brian Reata</u>			
<u>Devin Gordon</u>	<u>NDEP Representative (McGinley & Assoc.)</u>	<u>0900</u>	<u>1630</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>1</u>	<u>10</u>	<u>Manganese Parcel Remediation</u>

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

2 CAT 345C excavators, 1 dozer DGW, 2 water trucks,
1 CAT 14H Grader (not in use).

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 2 of 2

Date: 5/13/2010
Recorded By: Jim Carolan

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: Two CAT 345C Excavators
1 Dozer D9W

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): KMG, Assorted Subcontractors
Transporter Equipment: No. 30 Type: Bottom dumps and
No. Type: and 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:

General Activities Summary:

• ENTACT transported 123 loads to Apex landfill.
• ENTACT working on incident report for Highway 15 accident on 5/12/2010.

Print Name: Jim Carolan Signature: [Signature]

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: 5/14/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: 70's - 80's

Site Conditions: Light winds

NORTHGATE PERSONNEL ON-SITE

Jim Carolan

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Brian Rakvica</u>	<u>NDEP Representative (McGinty & Assoc.)</u>	<u>1000</u>	<u>1400?</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>1</u>	<u>10</u>	<u>Manganese Parcel Remediation</u>

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

2 CAT 345C excavators, 1 Doze D6w, 2 Water trucks
1 CAT 14H Grader (not in use)

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 2 of 2

Date: 5/14/2010

Recorded By: Jim Carolan

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:

Two CAT 346C Excavators
1 Dozer D6w

Comments:

- Excavators mixed water with manganese tailings and transported 147 loads of material to Apex Landfill
- ENTACT controlled dust effectively all day
- Northgate isolated a 35' x 20' area where ENTACT encountered odors. Northgate performed H&S screening with PID, all readings are zero.

Waste Transport and Disposal Summary:

Transporter(s):

KMCA, Assorted Contractors

Transporter Equipment:

No.	30	Type:	end dumps +
No.		Type:	belly 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:

General Activities Summary:

- ENTACT transported 147 loads to Apex Landfill.
- ENTACT submitted an incident report for Highway 15 accident on 5/12/2010.
- Northgate isolated and performed PID screening in an area of 35' x 20' where ENTACT detected odors. Area is NW corner of manganese tailings stockpile. Northgate will collect soil samples in this area on 5/15/2010.

Print Name: Jim Carolan

Signature:

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: 5/5/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clew, breezy

Temperature: 85-90°

Site Conditions: _____

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Dana Brawn

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Brian Rakulica</u>	<u>McAnley & Assoc. (NDEP Representative)</u>	<u>1200</u>	<u>1235</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>1</u>	<u>10</u>	

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

2 CAT 345C excavators, 3 dozers, 2 water trucks, 1 CAT 14H Grader (not in regular use)

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 2 of 2

Date: 5/15/2010
Recorded By: Jim Carlson

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
Two D6w Dozers.

Comments: • Excavators mixed water with manganese tailings and transported ~147 loads of material to Apex Landfill
• ENTACT controlled dust effectively all day
• Northgate sampled the ~35' x 20' area isolated on 5/14/2010. See Dana Brown's notes for details (attached)

Waste Transport and Disposal Summary:

Transporter(s): Assorted contractors
Transporter Equipment: No. 35 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:

General Activities Summary:

• ENTACT transported ~147 loads to Apex Landfill.
• Northgate sampled on ~35' x 20' area isolated due to odors on 5/14/2010.
• ENTACT shut job down on evening of 5/15/2010 due to perceptions of landfill's ability to handle delivered material. See attached letter.

Print Name: Jim Carlson Signature: [Handwritten Signature]

Field Activity Report



environmental management, inc.

1100 Quail Street, Suite 102, Newport Beach, CA 92660
 Tel: (949) 260-9293 Fax: (949) 260-9299

Page 1 of 2

Date: 5-15-2010

Recorded By: Dana R. Brown

Project Name: Manganese Tailings Removal Project No.: 2027,08,10S

Client Name: Tronox LLC Temperature: 85°-90°

Weather: Sunny & high clouds & breezy.

Site Conditions: Active excavation & off haul of tailings. Freshly exposed bench on N. side of tailings @ basal surface of tailings / @al end.

NORTHGATE PERSONNEL ON-SITE

Jim Carolan
Dana R. Brown

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Brian Rakovic</u>	<u>McGinley & Assoc.</u>	<u>12⁰⁰</u>	<u>12³⁵</u>

CONTRACTORS

Contractor Name: Entact Phone No.: _____
 Supervisor: Bob Task: Excavation & Offhaul

Company	No. of Supervisors	No. of Workers	Remarks

EQUIPMENT

Soil sampling kit.
11.7 & 10.6 ev lamp PFD's (2x used)
2" x 6" stainless steel liners (x 4 used)
Decor kit.
Level D PPE

Field Activity Report



environmental management, inc.

1100 Quail Street, Suite 102, Newport Beach, CA 92660
Tel: (949) 260-9293 Fax: (949) 260-9299

Page 2 of 2

Date: 5-15-2010 Saturday

Recorded By: Dana R. Brown

Project Name: Manganese Tails Removal

Project No.: 2027, 08, 105

Client Name: Tronox LLC

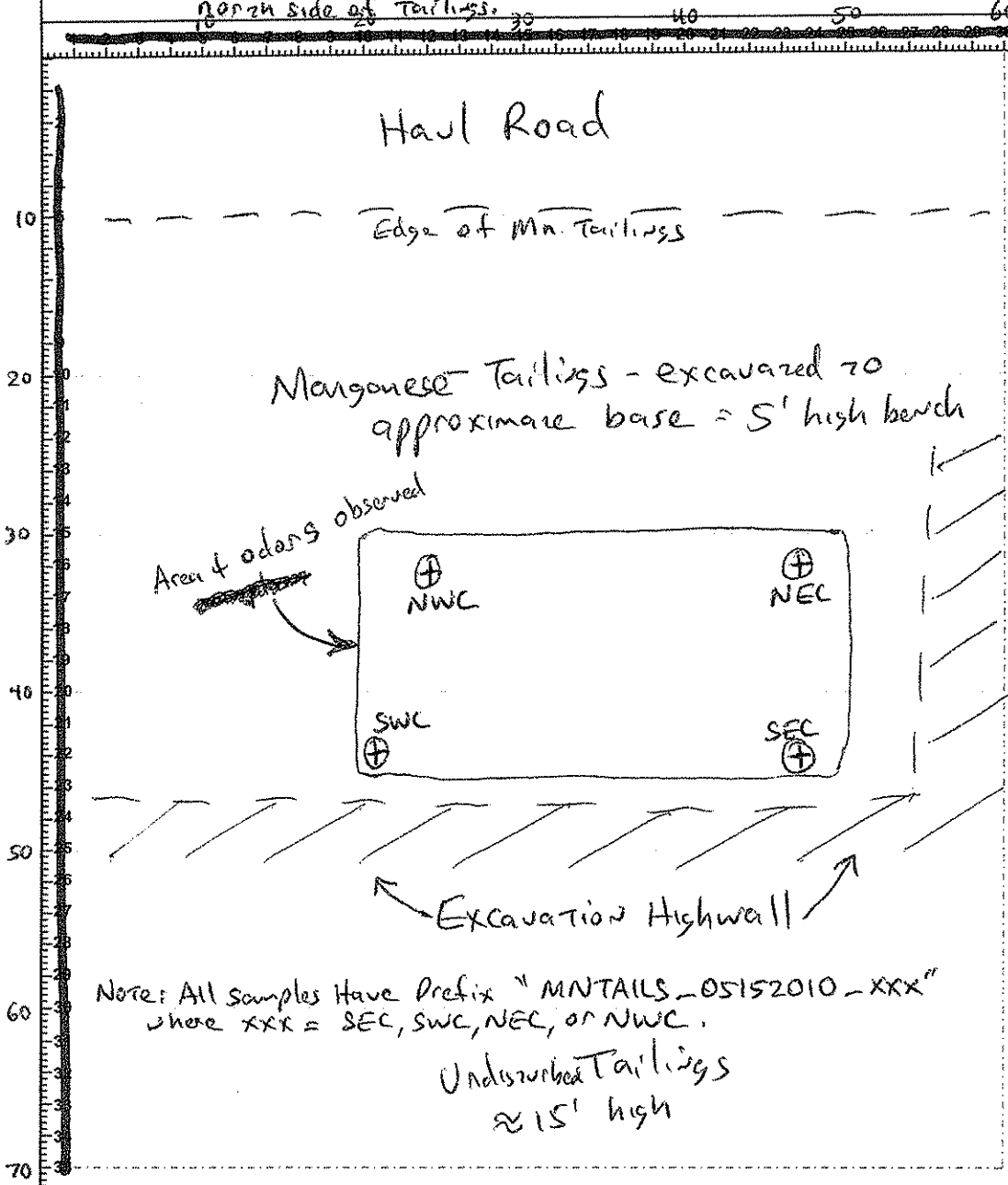
ACTIVITIES

Time:	Activities (include event, time, observations, observers, etc.)
11:30	Mob up for soil sampling. Drive to Tronox & check in @ guard
11:50	Mob to NGEM trailer, meet Jim Conolan & Brian Rakovic
	Discuss events of yesterday & plan of action for today.
	1) Excavating near basal surface of tailings, along first bench in NW area. Workers detected odor in area roughly 10' x 20' near basal contact. Excavation stopped, moved over & continued.
	2) Entact (contractor) requested sampling to determine odor source.
	3) From Mr. Gwiley Assoc. - Brian Rakovic: Possible COPC's include VOC's, SVOC's, organic acids, phthalates.
	Pack up sampling equipment - Note: ran out of 2" x 6" tubes for coring slide hammer, will have to use 2.5" x 6" tubes from sonic drilling (2.5" x 6" stainless steel tubes). Advanced 4 rock hammer
	Mob to tailings & examine area, photograph. Prep to collect soil samples. Entact has scraped fresh 6" off the 15' x 30' area of interest.
	Select 4 locations & commence mapping & GPS measurements; See Site Map.
	SWC = N 36° 02.729' W 115° 00.049'
	NWC = N 36° 02.732' W 115° 00.048'
	NEC = N 36° 02.734' W 115° 00.043'
	SEC = N 36° 02.730' W 115° 00.043'
	Collect samples for headspace gas testing & lay out in the sun. Intake @ 5ft
	Prepare to sample soils, Level D PPE, See Soil Sample Data Forms
13:14	Perform background air monitoring of 2 PZD's; 11.7ev = 0.0; 10.6ev = 0.0
13:30	Collect sample in SWC = MNTAILS-05152010-SWC 1 x (2.5x6") SS tube
13:55	Collect sample in NEC = MNTAILS-05152010-NEC ↓ ↓ ↓
14:05	Collect sample in SEC = MNTAILS-05152010-SEC ↓ ↓ ↓
14:35	Collect sample in NWC = MNTAILS-05152010-NWC ↓ ↓ ↓
	Package samples as Jim Conolan measures distances between.
14:50	Return to trailer & process samples & paperwork.
16:00	Finish processing samples & documentation. Mob to guard shack & checkout.
16:17	Return to Hotel, finished.

Print Name: Dana R. Brown

Signature:

Project Name: Tronox LLC	Site Name: Manganese Tailings
Project Number: 2027, 08, 10S	Site Address: 560 W. Lake Mead Parkway
Drawn By: Dana R. Brown	City & State: Henderson, Nevada 89015
Date & Time: 5-15-2010 ; 13:10	Northing: N 36° 2.732' Easting: E 115° 0.048'
Description: Northwest corner of manganese tailings pile. 1st excavated bench on north side of Tailings.	



Geologic Units

Manganese Tailings ①

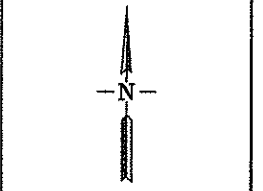
Fill or Gravel ②

SWC = Best Mn tails sample

SWC = Best Gravel sample

NWC = packed sample Mn

NEC = Gravel



⊕ = Co-located soil + Headspace
 NEC gas samples

Map Symbols

||||| = Excavation margin



Scale: 1" = 10'

PID Model: ~~10.6~~ Mini RAE 2000, PGM7600 Serial Number: 10.6 / 11.7 Date Calibrated: 10.6 / 11.7 = 5-14-2010

Station ID:	SWC	NWC	NEC	SEC	Breathing Zone	
Depth (ft):	6"	6"	6"	6"	+5	+5
10.6 PID (ppm):	1.8	0.7	0.8	0.6	0.0	0.0
11.7 PID (ppm):	1.4	1.0	1.4	0.7	0.0	0.0
Time:	13:45	13:47	13:49	13:51	13:14	14:00



SOIL SAMPLE DATA FORM

1100 Quail Street, Suite 102, Newport Beach, CA 92660
Tel: (949) 260-9293 Fax: (949) 260-9299

PROJECT NAME: Tronox LLC SAMPLE ID: MNTAILS-05152010-NEC

PROJECT NO.: 2027, 08, 10S DATE: 5-15-2010 TIME: 13:55

SITE ADDRESS: 560 W. Lake Mead Pkwy Henderson, Nevada 89015 COLLECTED BY: Dana R. Brown

GPS COORDINATES: N 36° 02.734' W 115° 00.043' Elevation:

LOCATION DESCRIPTION: NW area of manganese tailings. Approx 15' x 30' area in far NW portion, on 1st excavated bench. At basal surface of tailings, sample is from sandy soil below tails. NEC

COLLECTION METHOD: Excavator removed 6" of material over 15' x 30' area. Advanced new, pre-cleaned liner into soil using stainless steel rock hammer.

METHOD 5035 DATA: Type of Collection Device: N/A Number of Samples Collected: Preservation Methods:

SAMPLE DATA: Type of Collection Device: 2" x 6" stainless steel liner Sample Homogenized?: No ID of Samples Collected: MNTAILS-05152010-NEC Preservation Methods: 4° C in cooler with ice

SAMPLE CONTAINER: Stainless Steel Liner Brass Liner Acetate Liner Glass Jar Other (describe):

QA/QC SAMPLE DATA: Type of Collection Device: N/A Sample Homogenized?: ID of Samples Collected: Preservation Methods:

SAMPLE CONTAINER: Stainless Steel Liner Brass Liner Acetate Liner Glass Jar Other (describe):

EQUIPMENT DECONTAMINATION PROCEDURES:

DECONTAMINATION METHOD: [X] Non Phosphatic detergent wash/distilled water rinse [] Hot pressure wash/steam cleaning [] Reagent water rinse [] Methanol rinse

NOTES: Liner capped with Teflon sheers & plastic end caps sealed with Parafilm. Collect sample from end marked "bottom" for 8260b analysis.

Soil Sample Data Form P2D Values for Headspace Gas: 10.6 ev = 0.8 ppm 11.7 ev = 1.4 ppm



environmental management, inc.
1100 Quail Street, Suite 102, Newport Beach, CA 92660
Tel: (949) 260-9293 Fax: (949) 260-9299

PROJECT NAME: Tronox LLC SAMPLE ID: MNTAILS-05152010-NWC
PROJECT NO.: 2027,08,105 DATE: 5-15-2010 TIME: 14:35
SITE ADDRESS: 560 W. Lake Mead Pkwy Henderson, Nevada 89015 COLLECTED BY: Dana R. Brown

GPS COORDINATES: N 36° 02.732' W 115° 00.048' Elevation:

LOCATION DESCRIPTION: N.W. corner of Mn tailings, approx 15' x 30' area on NW corner of first excavated bench. Taken from manganese tailings just above basal contact of tails and fill/det.
NWC

COLLECTION METHOD: Excavator removed 6" of material over 15' x 30' area. Advanced new, pre-cleaned S/S tube 6" into tailings using stainless steel rack hammer. Material too loose to stay in tube, sample re-packed.

METHOD 5035 DATA: Type of Collection Device:
Number of Samples Collected:
Preservation Methods:
N/A

SAMPLE DATA: Type of Collection Device: 2" x 6" stainless steel tube
Sample Homogenized?: No
ID of Samples Collected: MNTAILS-05152010-NWC
Preservation Methods: 4°C with cooler containing ice

SAMPLE CONTAINER: Stainless Steel Liner [checked] Brass Liner Acetate Liner Glass Jar
Other (describe):

QA/QC SAMPLE DATA: Type of Collection Device:
Sample Homogenized?:
ID of Samples Collected:
Preservation Methods:
N/A

SAMPLE CONTAINER: Stainless Steel Liner Brass Liner Acetate Liner Glass Jar
Other (describe):

EQUIPMENT DECONTAMINATION PROCEDURES:

DECONTAMINATION METHOD: [checked] Non Phosphatic detergent wash/distilled water rinse
[] Hot pressure wash/steam cleaning
[] Reagent water rinse [] Methanol rinse

NOTES: Liner sealed with teflon sheers, capped with plastic caps, and secured with Parafilm. Do not use for VOC analysis = packed sample.

Soil Sample Data Form PID Values for Headspace Gas: 10.6 ev = 0.7 ppm
11.7 ev = 1.0 ppm



environmental management, inc.

1100 Quail Street, Suite 102, Newport Beach, CA 92660
Tel: (949) 260-9293 Fax: (949) 260-9299

SOIL SAMPLE DATA FORM

PROJECT NAME: TRANOX LLC SAMPLE ID: MN'TAILS-05152010-SWC

PROJECT NO.: 2027.08.10S DATE: 5-15-2010 TIME: 13:30

SITE ADDRESS: 560 W. Lake Mead Pkwy Henderson, Nevada 89015 COLLECTED BY: Dona R. Brown

GPS COORDINATES: N 36° 02.729' W 115° 00.049' est. Elevation: _____

LOCATION DESCRIPTION: NW section of Manganese Tailings. Active excavation area along N side, near bench @ basal contact of tails & alluvium. Approx 15' x 30' area in for NW corner of tailings along 1st bench. Sample from South West portion of sample area, in Manganese tails material
SWC

COLLECTION METHOD: Excavator removed 6" of material over entire 15' x 30' area. Drove new, pre-cleared stainless steel tube into tailings material using Estwing stainless steel hammer. Advanced tube 6" then removed.

METHOD 5035 DATA: Type of Collection Device: _____
Number of Samples Collected: _____
Preservation Methods: _____
N/A

SAMPLE DATA: Type of Collection Device: 2" x 6" stainless steel liner
Sample Homogenized?: No
ID of Samples Collected: MN'TAILS-05152010-SWC
Preservation Methods: 4° C in cooler with ice.

SAMPLE CONTAINER: Stainless Steel Liner Brass Liner _____ Acetate Liner _____ Glass Jar _____
Other (describe): _____

QA/QC SAMPLE DATA: Type of Collection Device: _____
Sample Homogenized?: _____
ID of Samples Collected: _____
Preservation Methods: _____
N/A

SAMPLE CONTAINER: Stainless Steel Liner _____ Brass Liner _____ Acetate Liner _____ Glass Jar _____
Other (describe): _____

EQUIPMENT DECONTAMINATION PROCEDURES:

DECONTAMINATION METHOD: Non Phosphatic detergent wash/distilled water rinse Hot pressure wash/steam cleaning
 Reagent water rinse Methanol rinse

NOTES: Linens capped with Teflon sheet & plastic end caps. Caps secured w/ Parafilm. Collect sample for analysis from end marked "bottom".

Soil Sample Data Form PID Values for Headspace Gas: 10.6 ev = 1.8 ppmv
11.7 ev = 1.4 ppmv



environmental management, inc.

1100 Quail Street, Suite 102, Newport Beach, CA 92660
Tel: (949) 260-9293 Fax: (949) 260-9299

PROJECT NAME: Tronox LLC SAMPLE ID: MNTAILS_05152010_SEC
PROJECT NO.: 2027.08.105 DATE: 5-15-2010 TIME: 14:05
SITE ADDRESS: 560 W. Lake Mead Henderson, Nevada 89015 COLLECTED BY: Dana R. Brown

GPS COORDINATES: N 36° 02.730' W 115° 00.043' est, Elevation: _____

LOCATION DESCRIPTION: NW area of Manganese tailings. Approx 15' x 30' area in NW area of tailings @ 1st bench excavation basal surface / contain + QAI? SEC Sample from South east portion of sample area, in native soil QAI (or fill material?).

COLLECTION METHOD: Excavator removed 6" of material over entire 15' x 30' area. Advanced new, pre-cleard stainless steel tube into native soils below tailings material using stainless steel hammer. Advanced tube 6" then removed.

METHOD 5035 DATA: Type of Collection Device: _____
Number of Samples Collected: _____
Preservation Methods: _____
N/A

SAMPLE DATA: Type of Collection Device: 2" x 6" stainless steel liner
Sample Homogenized?: No
ID of Samples Collected: MNTAILS_05152010_SEC
Preservation Methods: 4°C in cooler with ice.

SAMPLE CONTAINER: Stainless Steel Liner Brass Liner _____ Acetate Liner _____ Glass Jar _____
Other (describe): _____

QA/QC SAMPLE DATA: Type of Collection Device: _____
Sample Homogenized?: _____
ID of Samples Collected: _____
Preservation Methods: _____
N/A

SAMPLE CONTAINER: Stainless Steel Liner _____ Brass Liner _____ Acetate Liner _____ Glass Jar _____
Other (describe): _____

EQUIPMENT DECONTAMINATION PROCEDURES:

DECONTAMINATION METHOD: Non Phosphatic detergent wash/distilled water rinse Hot pressure wash/steam cleaning
 Reagent water rinse Methanol rinse

NOTES: Liners sealed with teflon sheets, capped with plastic caps & secured with Parafilm. Collect sample for analysis from end marked "Bottom".

Soil Sample Data Form PID Values for Headspace Gas: 10.6 ev = 0.6 ppmv
11.7 ev = 0.7 ppmv

2027.01.1725 DLS
2027.08.0001

Page: 1 of 0
Cooler #: 1 of 1



1100 Quail Street, Suite 102
Newport Beach, CA 92660 (949) 260-9293

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

Required Project Information:		Required Invoice Information:	
Lab Name: Test America Laboratories Inc	Site ID #: 102	Send Invoice to: Susan Crowley Tronox LLC.	PO Box 55
Address: 4955 Yarrow Street	Project #: 2027.008	Address: Henderson, NV 89009	Phone #: (949) 260-9293
City: Nevada, Colorado 80002	Site Address: 560 W Lake Mead Drive	City/State: Henderson, NV 89009	Phone #: (949) 260-9293
Lab P/N: Michael Phillips	City: Henderson	PO #:	
Phone/Fax: 303-735-0157	State, Zip: NV, 89009	Send EDD to: Frank.Hagar@ngm.com	
Lab P/N email: michaelphilips@testamericainc.com	Site P/N Name: Derrick Willis	CC Hardcopy report to: PDF Electronic Version Only - FTP Upload	
Applicable Lab Code #:	Phone/Fax: (949) 375-7004	CC Hardcopy report to: See Additional Comments Below	
	Site P/N Email: derrick.willis@ngm.com		

ITEM #	SAMPLE ID Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	MATRIX CODE	G-RAB C-COMP	SAMPLE TYPE	SAMPLE DATE	SAMPLE TIME	# OF CONTAINERS	Comments/Lab Sample I.D.	ANALYSIS		TEMPERATURE		SAMPLE RECEIPT CONDITIONS		
										Reg	Pro	Temp in OC	Temp in Lab	Sample Intact?	Temp in OC	Temp in Lab
	MN TAILS - 05152010 - SEC	MN Tails	SO	G	SST	5-15-2010	14:05	1		8260 Screen	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
	MN TAILS - 05152010 - SMC	MN Tails	SO	G	SST	5-15-2010	13:30	1		A - RUSH	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
	MN TAILS - 05152010 - DEC	MN Tails	SO	G	SST	5-15-2010	13:55	1		H	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
	MN TAILS - 05152010 - NWL	MN Tails	SO	G	SST	5-15-2010	14:35	1		H	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N

RELINQUISHED BY / ACTIVATION	DATE	TIME	ACCEPTED BY / ACTIVATION	DATE	TIME
<i>[Signature]</i>	5-17	16:30			

SHIPPING INFO	SHIPPER NAME AND SIGNATURE	DATE SIGNED
Red-X	DANAR, BROWN	5-17-2010

Additional Comments/Special Instructions:
 Reconnaissance Sample Screen \$260
 Take sample for analysis from end of tube marked "Bottom",
 H = Hold, A = Analyze, RUSH Turnover
 SST = Seamless Steel Tube 2"x6"

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: 5/18/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear, breezy

Temperature: _____

Site Conditions: _____

NORTHGATE PERSONNEL ON-SITE

Jim Carolan

No work conducted on 5/17/2010 due to ENTACT work stoppage.

Dana Brown (resampled isolated area of 5/14/200, see attached report)

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>NDEP Representative</u>	<u>0700</u>	<u>1630</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>1</u>	<u>10</u>	

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

2 CAT 345C excavators, 3 dozers, 2 water trucks, 1 CAT 14H Grader. (not in regular use)

Field Activity Report



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Page 2 of 2

Date: 5/18/2010
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: Two CAT 345C Excavators
Two DGW Dozers

Comments: • Excavators mixed water with manganese tailings and transported 150 loads of material to Apex Landfill.
• ENTACT controlled dust effectively all day.
• Northgate re-sampled the 35' x 20' area isolated on 5/14/2010.
• Northgate / ENTACT / Republic met at Apex Landfill. See attached summary.

Waste Transport and Disposal Summary:

Transporter(s): Assorted
Transporter Equipment: No. 37 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:

General Activities Summary:

• ENTACT transported 150 loads to Apex Landfill.
• Northgate re-sampled the 35' x 20' area isolated for odors on 5/14/2010.
• ENTACT / Republic / Northgate met at Apex Landfill to discuss strategy for material handling

Print Name: Jim Carlson Signature: [Signature]

Field Activity Report



environmental management, inc.

Page 1 of 2

1100 Quail Street, Suite 102, Newport Beach, CA 92660
 Tel: (949) 260-9293 Fax: (949) 260-9299

Date: 5-18-2010 Tuesday
 Recorded By: Dana R. Brown

Project Name: Manganese Tailings Removal Project No.: 2027.08.10S

Client Name: Tronox LLC

Weather: Clear & Breezy Temperature: 80° - 85°

Site Conditions: Active excavation & off haul of manganese tailings. Samples collected at freshly excavated bench on North side of tailings near basal contact with native G&L.

NORTHGATE PERSONNEL ON-SITE

Dana R. Brown

VISITORS

Name	Company/Agency	Time Arrived	Time Left

CONTRACTORS

Contractor Name: Entact Phone No.: _____
 Supervisor: Bob Task: Excavation & offhaul

Company	No. of Supervisors	No. of Workers	Remarks

EQUIPMENT

Soil Sampling Kit
11.7 & 10.6 ev lamp equipped PID's (2 total)
Hand auger + Slide Hammer.
Deton Kit.
Level D ppe

Field Activity Report



environmental management, inc.

1100 Quail Street, Suite 102, Newport Beach, CA 92660
Tel: (949) 260-9293 Fax: (949) 260-9299

Page 2 of 2

Date: 5-18-2010 Tuesday

Recorded By: Dona R. Brown

Project Name: Manganese Tailings Removal

Project No.: 2027, 08, 103

Client Name: Tronox LLC

ACTIVITIES

Time:	Activities (include event, time, observations, observers, etc.)
10:00	Get sample supplies from Fed-Ex delivery @ hotel. Mob to tronox. Pack up supplies & equipment for sampling. Pack up Method 5035 & Hand auger. Decon Auger + sampler. Mob to Tailings & check in with Enrac.
12:30	Commence sample collection: 1) 1' West of MNTAILS_05182010-SWC. exc remove upper 3" to expose fresh soils & pound 2" x 6" tube w/ slide hammer. 2) Inspect bottom = inside tailings. 3) Pull method 5035 samples from bottom end of tube. 4) Use sluff from around tube for moisture content sample 5) Drive 2nd tube & collect for ^{possible} SVOC's, organic acids, phthalates. 5 Containers filled. MNTAILS_05182010-SWC, 3x VOAS, 1x 50ml poly, 1x 2" x 6" SS tube 6) Move over 4" & repeat for collection of MNTAILS_0518201-SWC-009 = QA/QC duplicate of (SWC) primary sample. Used "Lock n Load" sampler advanced into undisturbed soils inside driven tubes. Placed directly into pre-preserved VOAS & Mecharol (1) & DZ water (2).
12:55	Package Samples & do paperwork.
13:20	Return to Trailer & finish paperwork.
	Collected 2 Samples @ 12:30:
	MNTAILS_05182010-SWC
	MNTAILS_05182010-SWC-FD
	5 containers per sample filled. Collected in level D PPE.

Print Name: Dona R. Brown

Signature:



environmental management, inc.

1100 Quail Street, Suite 102, Newport Beach, CA 92660

Tel: (949) 260-9293 - Fax: (949) 260-9299

SOIL SAMPLE DATA FORM

PROJECT NAME: TRONOR LLC SAMPLE ID: MNTAILS_05182010_SWC

PROJECT NO.: 2027.08.10S DATE: 5-18-2010 TIME: 12:30

SITE ADDRESS: 560 W. Lake Mead Pkwy Henderson, Nevada 89015 COLLECTED BY: Dana R. Brown

GPS COORDINATES: N 36° 02.729' W 115° 00.049' Elevation: _____

LOCATION DESCRIPTION: NW section of manganese tailings, Active excavation area along north side, near basal contact of tailings with native/Quaternary material
SWC Sample is from tailings 6" above Qal.

COLLECTION METHOD: Scraped 2" of material free of S/S trowel, Advanced coring tube 6" into substrate & retracted. Pressed 5035 kits from undisturbed soils in bottom of sample tube.

METHOD 5035 DATA: Type of Collection Device: "Lock Load"
Number of Samples Collected: 4; 3x VOAS (1x Methwot + 2x H₂O), 1x 50ml Poly
Preservation Methods: Method 5035

SAMPLE DATA: Type of Collection Device: 2.5" x 6" Stainless steel tube
Sample Homogenized?: Yes
PID Readings (ppm): 10.6 ev 1.4 11.7 ev 0.9 Other OVM _____
Number of Samples Collected: 1
Preservation Methods: 4°C in cooler with ice

SAMPLE CONTAINER: Stainless Steel Liner Brass Liner _____ Acetate Liner _____ Glass Jar _____
Other (describe): _____

QA/QC SAMPLE DATA: Type of Collection Device: Same as above = Field Duplicate
Sample Homogenized?: _____
Number of Samples Collected: 3 3-VOAS + SS Tube + Moisture Content?
Preservation Methods: _____
MNTAILS_05182010_SWC-FD
"0518201"

SAMPLE CONTAINER: Stainless Steel Liner Brass Liner _____ Acetate Liner _____ Glass Jar _____
Other (describe): Method 5035 VOAS = 3; Moisture content = 50ml poly

EQUIPMENT DECONTAMINATION PROCEDURES:

DECONTAMINATION METHOD: Non Phosphatic detergent wash/distilled water rinse Hot pressure wash/steam cleaning
 Reagent water rinse Methanol rinse

NOTES: Liners capped w/ teflon sheers & plastic end caps, then sealed with para film.
Collect sample for analysis from end marked bottom. Method 5035 kit
Soil Sample Data Form Supplied by Ter America; ESS, 5035-KITA & Lock Load Syringe

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: 5/9/2010

Recorded By: Jim Carolen

Project Name: Manganese Tailings Removal Project No.: 2027.08, Task 10
 Client Name: Tronox LLC
 Weather: Clear Temperature: 90's
 Site Conditions: _____

NORTHGATE PERSONNEL ON-SITE

Jim Carolen

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>NDEP Representative</u>	<u>~ 0700</u>	<u>~ 1630</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>1</u>	<u>10</u>	

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

See next page

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 2 of 2

Date: 5/19/2010
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 345 Excavators, 2 D6 Dozers, 2 Water Trucks, 1 14ft Motor Grader

Comments: • Excavators mixed waste with manganese tailings and transported 164 loads of material to Apex Landfill
• Northgate and Republic met at the Apex Landfill to evaluate conditions of material being unloaded (see attached)

Waste Transport and Disposal Summary:

Transporter(s): Assorted
Transporter Equipment: No. 37 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:

General Activities Summary:

• ENTACT transported 164 loads to the Apex Landfill
• Northgate & Republic met at Apex Landfill to observe unloading operation

Print Name: Jim Carlson Signature: [Signature]



ENTACT
environmental tactics in waste management

FIELD ACTIVITY DAILY LOG

DATE:	5/19
DAY:	wed

PROJECT NAME: Tronox Tailings Removal Project	PROJECT NO.: E-7207
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LOCATION: Henderson, NV	
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DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

1. Summary of Construction Locations and Activities

345 working head C Duxer's ABC

North End

2.0 Daily Production

loads 164

3.0 Equipment Onsite

<u>Number</u>	<u>Type</u>		
<u>2</u>	CAT 345 Excavators		
	CAT 330 Excavators		
<u>2</u>	D6 Dozers		
<u>2</u>	4,000 Gallon Water Trucks		
<u>1</u>	12,000 Gallon Water Towers		
<u>1</u>	14H Motor Graders		

4.0 Personnel Onsite

<u>2</u>	Management Personnel	<u>2</u>	water truck
<u>4</u>	Equipment Operators		
<u>2</u>	Truck Drivers	<u>2</u>	D-CON 1 Gate
<u>3</u>	Laborers		

WEATHER CONDITION SUMMARY

Sunny

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

PROJECT MANAGER: Bob Ainslie

SIGNATURE: *Bob Ainslie*

DATE: 5/19

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: 5/20/2010

Recorded By: Jim Carlson

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: clear

Temperature: mid-90's

Site Conditions: Slight breeze

NORTHGATE PERSONNEL ON-SITE

Jim Carlson

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>NDEP Representative</u>	<u>10700</u>	<u>11630</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

Field Activity Report



environmental management, inc.

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Tel: (510) 839-0688 Fax: (510) 839-4350

Date: 5/20/2010
Recorded By: Jim Carolan

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

EXACVATION ACTIVITIES SUMMARY

Excavation Summary:

Excavation Contractor: ENTACT 2 CAT 345 Excavators 2
Excavation Equipment: D6 Dozers 2 Water trucks, 1 198
Motor Grader, 1 Street sweeper

Comments: 1 CAT excavator with thumb attachment (i.e. charge order)
to handle concrete debris

Waste Transport and Disposal Summary:

Transporter(s): Assorted
Transporter Equipment: No. 35 Type: bottom dumps.
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 note below regarding failed belly dump gate.

General Activities Summary:

- Failure of gate on a bottom dump truck resulted in loss of load at exit from manganese tailings pile (on 9^m Street on Tronox property). All material scrapped and pavement was swept clean. Incident occurred around 1500 when JMC was offsite. Event documented by NDEP representative. JMC satisfied with clean-up effort.
- ENTACT transported 159 loads to Apex Landfill.

Print Name: Jim Carolan Signature: James M C



ENTACT
environmental tactics in waste management

FIELD ACTIVITY DAILY LOG

DATE:	5/20
DAY:	

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

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

1. Summary of Construction Locations and Activities

Load out of A and C working North to South.

2.0 Daily Production

Truck Loads 159

3.0 Equipment Onsite

<u>Number</u>	<u>Type</u>	<u>Additional Information / Notes:</u>
<u>9</u>	CAT 345 Excavators	<u>12 hrs</u>
<u>2</u>	D6 Dozers	
<u>2</u>	4,000 Gallon Water Trucks	
<u>1</u>	12,000 Gallon Water Towers	
<u>1</u>	14H Motor Graders	
<u>1</u>	Street Sweeper	
<u>3</u>	Big Gun Sprinklers	

4.0 Personnel Onsite

	<u>Additional Information / Notes:</u>
<u>2</u> Management Personnel	
<u>4</u> Equipment Operators	
<u>2</u> Truck Drivers	
<u>3</u> Laborers	

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

PROJECT MANAGER: Bob Ainslie

SIGNATURE: <i>Bob Ainslie</i>	DATE: 5/20
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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 4 of 2

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

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 2 of 2

Date: 5/21/2010
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: 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.
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:

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: James 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>base 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:

[Handwritten Signature]

DATE:

5/21

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: 5/22/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal Project No.: 2027.08, Task 10
 Client Name: Tronox LLC
 Weather: Clear Temperature: 70's to 90's
 Site Conditions: Moderately strong winds throughout the day.

NORTHGATE PERSONNEL ON-SITE

Jim Carolan

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>NDEP Representative</u>	<u>~0900</u>	<u>~1000</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.

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 2 of 2

Date: 5/22/2010
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: 2 CAT 346 Excavators, 2 D6 Dozers
2 Waste Trucks, 1 14ft motor Graders
2 street sweeper

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

Waste Transport and Disposal Summary:

Transporter(s): Assorted
Transporter Equipment: No. 2 Type: End dumps
No. ~30 Type: bottom 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:

General Activities Summary:

- ENTACT provided effective dust control despite high sustained winds.
- ENTACT transported 152 loads of material to Apex Landfill

Print Name: Jim Carolan Signature: James M Carolan



FIELD ACTIVITY DAILY LOG

DATE:	5/22
DAY:	

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

1.0 Summary of Construction Locations and Activities
working in B/C from North to South

2.0 Daily Production
Truck loads 152

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
<u>2</u>	CAT 345 Excavators	<u>2</u>	Management Personnel
<u>2</u>	D6 Dozers	<u>1</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: <i>base</i>
<u>1</u>	Street Sweeper		
<u>3</u>	Big Gun Sprinklers		
	Other: _____		

Daily Activities Start Time: 6 AM
Daily Activities Stop Time: 6 PM

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

5.0 Incidents affecting Production: _____

WEATHER CONDITION SUMMARY <i>Sunny 75</i> <i>wind 20</i>	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input checked="" type="checkbox"/>

PROJECT MANAGER: Bob Ainslie

SIGNATURE: *[Signature]* DATE: 5/22

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: 5/24/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Partly cloudy to clear

Temperature: 70's - 80's

Site Conditions: Light breeze

NORTHGATE PERSONNEL ON-SITE

Jim Carolan

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>McGinley & Associates (NDEP Rep)</u>	<u>~730</u>	<u>~1630</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

Field Activity Report



environmental management, inc.

300 Frank H. Ogawa Plaza, Suite 510, Oakland, CA 94612
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Page 2 of 2

Date: 5/24/2010
Recorded By: Jim Carlson

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: 2 CAT 345 Excavators, 2 DG Pavers
2 Waste trucks, 1 Kih Moto grader
1 street sweeper

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

Waste Transport and Disposal Summary:

Transporter(s): Assorted
Transporter Equipment: No. 2 Type: End dump.
No. ~35 Type: bottom 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:

General Activities Summary:

- ENTACT provided effective dust control despite throughout day
- ENTACT transported 42 loads of material to Apex landfill

Print Name: Jim Carlson Signature: [Signature]



FIELD ACTIVITY DAILY LOG

DATE:

5/24

DAY:

PROJECT NAME: Tronox Tailings Removal Project

PROJECT NO.: E-7856

LOCATION: Henderson, NV

1.0 Summary of Construction Locations and Activities*working B and C from north to south***2.0 Daily Production***Truck Loads 142***3.0 Equipment / Personnel Onsite**Quantity Type2 CAT 345 Excavators2 D6 Dozers2 4,000 Gallon Water Trucks1 12,000 Gallon Water Towers1 14H Motor Graders1 Street Sweeper3 Big Gun Sprinklers

Other: _____

Quantity Type2 Management Personnel4 Equipment Operators2 Truck Drivers2 LaborersOther: *6000*Daily Activities Start Time: 6:00 AMDaily Activities Stop Time: 6:00 PM**4.0 Safety Related Topics (meetings, incidents, etc.):***Team work***5.0 Incidents affecting Production:****WEATHER CONDITION SUMMARY***Sunny 72
winds 3/10***CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:**

Extra Work Tag Attached:

PROJECT MANAGER: Bob Ainslie

SIGNATURE:

June M C

DATE:

5/24/2010

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: 5/25/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear, Partly cloudy

Temperature: 70's - 80's

Site Conditions: Light breeze.

NORTHGATE PERSONNEL ON-SITE

Jim Carolan

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>NDEP Representative</u>	<u>~730</u>	<u>~1030</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

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 2 of 2

Date: 5/25/2010
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: 2 CAT 345 Excavators, 2 DG Bobcats
2 Water Trucks, 1 LHM Grader
1 Street Sweeper

Comments: 1 CAT excavator with thumb attachment and 1
and 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 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:

General Activities Summary:

- ENTACT provided effective dust control throughout day
- ENTACT transported 152 loads of manganese tailing to Apex; 12 loads of concrete debris

Print Name: Jim Carolan Signature: [Signature]



FIELD ACTIVITY DAILY LOG

DATE:	5/25
DAY:	

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

1.0 Summary of Construction Locations and Activities
13 and C North to South

2.0 Daily Production
TRUCK Loads 152 @ 12.5

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
<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		Other: <i>base</i>
<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.): _____

5.0 Incidents affecting Production: NA

WEATHER CONDITION SUMMARY <i>Sunny 80 no wind</i>	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 10px auto;"> <i>41</i> </div>

PROJECT MANAGER: Bob Ainslie	DATE: 5/25
SIGNATURE: <i>[Signature]</i>	

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: 5/26/2010

Recorded By: _____

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Sunny

Temperature: 80's - 90's

Site Conditions: Windy

NORTHGATE PERSONNEL ON-SITE

Jim Carola

2

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>NER Representative</u>	<u>~7:30</u>	<u>~10:30</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

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 2 of 2

Date: 8/26/2010
Recorded By: Jim Carolan

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 345 Excavator, 2 DG Dozers
2 Water trucks, 1 14ft Motor Grader
1 street sweeper

Comments: Excavator/Attachment reportedly used for concrete handling

Waste Transport and Disposal Summary:

Transporter(s): Assorted
Transporter Equipment: No. ~35 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:

General Activities Summary:

- ENTACT provided effective dust control throughout day
- ENTACT transported 151 tons of material to Apex Landfill

Print Name: Jim Carolan Signature: Jim Carolan



FIELD ACTIVITY DAILY LOG

DATE:	5/26
DAY:	

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

1.0 Summary of Construction Locations and Activities
B and C working north to south

2.0 Daily Production
Truck loads 151

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: <i>gate</i>
<u>1</u>	Street Sweeper		
<u>3</u>	Big Gun Sprinklers		
	Other: _____		

Daily Activities Start Time: 6 AM
Daily Activities Stop Time: 6 PM

4.0 Safety Related Topics (meetings, incidents, etc.):
*The right PPE for the job
Hot work on Dozer Blade*

5.0 Incidents affecting Production:

WEATHER CONDITION SUMMARY <i>SUNNY 85° windy 15/25</i>	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input checked="" type="checkbox"/>

PROJECT MANAGER: Bob Ainslie

SIGNATURE: *Bob Ainslie* DATE: 5/26

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: 5/27/2010

Recorded By: Jim Gordon

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: 80's

Site Conditions: Windy

NORTHGATE PERSONNEL ON-SITE

Jim Gordon

VISITORS

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

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 2 of 2

Date: 5/27/2010
Recorded By: Jim Carolan

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 Dozers
2 Water trucks, 1 14H, Moto grader
1 Street sweeper

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

Waste Transport and Disposal Summary:

Transporter(s): Assorted
Transporter Equipment: No. 1 Type: 35 bottom dumps
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:

General Activities Summary:

- ENTACT provided effective dust control throughout day
- ENTACT transported 156 loads of material and
5 loads of concrete debris to Apex landfill

Print Name: Jim Carolan Signature: [Signature]



FIELD ACTIVITY DAILY LOG

DATE: 5/27
 DAY: _____

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

1.0 Summary of Construction Locations and Activities
B and C in the am. and A and C in pm

2.0 Daily Production
Truck loads 156, 5 end dumps

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.):
How to lift not using your back

5.0 Incidents affecting Production:

WEATHER CONDITION SUMMARY <u>Sunny 82</u> <u>windy 15/30</u>	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input type="checkbox"/>

PROJECT MANAGER: Bob Ainslie
 SIGNATURE: [Signature] DATE: 5/27

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: 5/26/2010

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

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 2 of 2

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 14ft 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 <u>Sunny 75</u> <u>windy 15/20</u>	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input type="checkbox"/>

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

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: 6/1/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: 90's

Site Conditions: Windy

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barron

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>McGinly & Associates (NDEP Rep)</u>	<u>~ 16:30</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>1</u>	<u>10</u>	

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

see page 2

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 2 of 2

Date: 6/1/2010

Recorded By: Jim Carolan

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 345 Excavators / 2 D6 Dozers
2 Water trucks, 1 417 Moto grader
1 Street sweeper

Comments:

Waste Transport and Disposal Summary:

Transporter(s):

Assailed

Transporter Equipment:

No. ~35 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:

General Activities Summary:

- ENTACT provided effective dust control throughout day
- ENTACT transported 165 loads of material to Apex Landfill
-

Print Name: Jim Carolan

Signature:



FIELD ACTIVITY DAILY LOG

DATE:	6/1
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 A and C marking North to south

2.0 Daily Production
truck loads 165

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
<u>2</u>	CAT 345 Excavators	<u>1</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>3</u>	Laborers
<u>1</u>	14H Motor Graders	<u>1</u>	Other: <i>bare</i>
<u>1</u>	Street Sweeper		
<u>3</u>	Big Gun Sprinklers		
	Other: <u>330 Hec</u>		

Daily Activities Start Time: 6 AM
 Daily Activities Stop Time: 6 PM

4.0 Safety Related Topics (meetings, incidents, etc.): The right tool for the job

5.0 Incidents affecting Production: NA

WEATHER CONDITION SUMMARY <i>Sunny 95 winds 15/30</i>	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input type="checkbox"/>

PROJECT MANAGER: Bob Ainslie

SIGNATURE: *[Signature]* DATE: 6/1

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: 6/2/2010

Recorded By: Jim Carlan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Partly cloudy

Temperature: mid-90's

Site Conditions: Windy

NORTHGATE PERSONNEL ON-SITE

Jim Carlan, Francisco Barron

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>NDEP Representative (McCarthy & Associates)</u>	<u>~1630</u>	<u>~1630</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>10</u>	

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

See page 2.

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 2 of 2

Date: 6/2/2010

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:
Excavation Equipment:

ENTACT

2 CAT 345C Excavators 2 Do Dozers
2 Water trucks, 2 14ft Moto grader.
1 Street sweeper

Comments:

Waste Transport and Disposal Summary:

Transporter(s):
Transporter Equipment:

Assoled.

No. 2 Type: 35
No. Type:
No. Type:

Waste Type/Classification:
Disposal Facility:

Soil/Non-Hazardous Waste, Waste Profile No. 3825104167
Apex Landfill, 13550 North US Highway 93, Las Vegas, Nevada

Comments:

• see attached notifications regarding a rear belly dump truck trail overrun at Apex landfill.

General Activities Summary:

- ENTACT provided effective dust control throughout day
- ENTACT transported 150 loads of material to Apex landfill
- See attached notifications for accident report

Print Name: Jim Carolan

Signature:

James M C



FIELD ACTIVITY DAILY LOG

DATE:	6/2
DAY:	

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

1.0 Summary of Construction Locations and Activities
working North to south A and C

2.0 Daily Production
Truck loads 156

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>3</u>	Laborers
<u>1</u>	14H Motor Graders	<u>1</u>	Other: <i>gate</i>
<u>1</u>	Street Sweeper		
<u>3</u>	Big Gun Sprinklers		Daily Activities Start Time: <u>6 AM</u>
<u>1</u>	Other: <u>380 Hoe</u>		Daily Activities Stop Time: <u>6 PM</u>

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

5.0 Incidents affecting Production:

WEATHER CONDITION SUMMARY	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input type="checkbox"/>

PROJECT MANAGER: Bob Ainslie

SIGNATURE: *Bob Ainslie* DATE: 6/2

From: [Clinker, Mark](#)
To: [Jim Carolan](#); [Hays, Fred](#)
Cc: [jcarroll@entact.com](#); [Tidwell, Robert](#); [Higgs, Tim](#); [Clinker, Mark](#); [Collins, Sue](#); [Menchaca, Maria](#)
Subject: Apex Procedures, Safety and Maps
Date: Wednesday, June 02, 2010 5:50:17 PM
Attachments: [TRONOX PROCEDURE \(2\).doc](#)
[Customer Safety letter handout.doc](#)
[Tronox off-loading areas.pdf](#)
[Tronox traffic - unloading.pdf](#)

Jim,

Please find attached the updated information for the project. If you have any questions please let me know. On a side note we had a small incident onsite which a driver tipped the back trailer of a belly dump over. No one was hurt and minimal damage if any. We are working on the accident report. Josh also asked me if Entact could station a person here to monitor the trucks of which I am not totally in favor but will oblige with a written safety training, procedure plan and indemnification from them.

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

ENTACT Incident Investigation / Near Loss Investigation

Every employee injury, accident, and near loss must be reported within twenty-four hours of the injury. If the incident results in hospitalization, an immediate report must be made by telephone to the Project Manager and the Health and Safety Officer.

DRAFT UNDER REVIEW

Incident Date/Time	6/2/10 11:15am		
Project Number and Name	E7856 Tronox Manganese Tails	FPM: Bob Ainslie	HSO: Carol McKenzie
Loss Type	<input checked="" type="checkbox"/> Near Loss <input type="checkbox"/> Theft <input type="checkbox"/> Lost Workday Injury <input type="checkbox"/> Restricted Duty Injury <input type="checkbox"/> Vehicle Accident <input type="checkbox"/> To Be Determined	<input type="checkbox"/> Near Loss (Potential Inj/III) <input type="checkbox"/> First Aid Injury <input type="checkbox"/> Notice of Violation <input type="checkbox"/> Spill / Leak <input type="checkbox"/> Fire	<input type="checkbox"/> Equipment/Property Damage <input type="checkbox"/> Injury Not Otherwise Classified <input type="checkbox"/> OSHA Recordable <input type="checkbox"/> Third Party Injury / Fatality <input type="checkbox"/> Non-Compliance
Work Type	Hauling Contaminated Soils		
Organization	ENTACT Services, LLC		
Stop Work Authority Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Investigation Date/Time	6/2/10 1:00 PM	Investigation Supervisor	Bob Ainslie
--------------------------------	----------------	---------------------------------	-------------

Employee Title	Sub-Contractor-HR Trucking	Supervisor	
Employment Status	<input type="checkbox"/> Regular <input type="checkbox"/> Part Time	How long in present job	

Incident Location	Apex Landfill
Incident Reported To	Bob Ainslie

Description of Incident / Near Loss (Describe what happened and how it happened)

Driver was at the landfill to discharge manganese tailings from Tronox site. Dozer operator instructed driver to dump load near a deep hole within the landfill. After discharging the load the driver pulled forward to exit. As he moved forward the first trailer fishtailed into the hole causing the rear trailer to roll onto the side. No injuries, minimal damage.

Investigation Team	Position/Title/Phone	Primary Contact
Carol McKenzie	Entact Health and Safety Officer	<input checked="" type="checkbox"/>
Bob Ainslie	Entact Field project Manager	
Ramon Herrera	HR Trucking Supervisor	
Rick MacIntyre	Entact Project H&S Officer	

"5-Why" Investigation (there may be more than one root cause, may need 5-why more than once)			Verification (visual, interviews, expert, written data, testing, etc.)
A	Why did incident happen?	Rear trailer rolled onto side	Visual, driver statement
B	Why did "A" happen?	Soil near dump location gave way under weight of empty trailer	Visual, driver statement
C	Why did "B" happen?	Surrounding soil was not compacted enough to support the weight of vehicle traffic	Visual, expert opinion
D	Why did "C" happen?	No apparent procedure for compaction of material at the landfill	Expert opinion
E	Why did "D" happen?		

Refer to Why Tree Handbook, page 18 for additional assistance on 5-Why Investigations (available on the intranet).

ENTACT Incident Investigation / Near Loss Investigation

Root Cause and Contributing Factors: (Refer to the 5-Why table above, and Describe in Detail Why Incident / Near Loss Occurred)	
1	Lack of procedure for establishment and compaction of dump area within the landfill.
2	
3	
4	
5	

Item No	RCA No	Solution(s): How to Prevent Incident / Near Loss From Recurring	Person Responsible	Due Date	Date Completed	Verified/ Validated by First Line Supervisor
1	5	Landfill operations are outside the control of ENTACT, however we will communicate our concern over selection of dump locations and proper compaction of soils. ENTACT will consider placing a person onsite at the landfill to ensure safe dumping conditions and that belly dumps are chained and pinned before leaving the landfill.	Bob Ainslie	6/4/10		

Results of Solution Verification and Validation

KEY FOR SELECTING ROOT CAUSES

1 Lack of skill or knowledge (Associate does not have necessary understanding of proficiency to do the job - PERSONAL FACTOR)	5 Lack of or inadequate operational procedures (No work standards or incomplete work standards (SOP, JSA, etc.) - JOB FACTOR)
2 In the past, did not follow procedures or acceptable practices and no incident occurred (injury, product quality incident, equipment damage, regulatory assessment or production delay) (Associate thinks there is no personal benefit to following safe work practices - PERSONAL FACTOR)	6 Inadequate communication of expectations regarding procedures or acceptable practices (Work standards are in place, but supervisors haven't communicated with every employee to let them know what they're suppose to be doing - JOB FACTOR)
3 Doing the job according to procedures or acceptable practices takes more time/effort (Associate thinks it is easier and faster to get the job done rather than follow established safe work practices - PERSONAL FACTOR)	7 Inadequate tools or equipment (available, operable and safely maintained, proper task and workplace design) (Tools and equipment are not available, they're not designed to do the job properly, or they're not maintained and in proper working condition - JOB FACTOR)
4 Short-cutting procedures or acceptable practices is positively reinforced or tolerated (Supervisor either accepts, or positively reinforces associate to <u>not</u> do the job exactly the way it should be done - PERSONAL FACTOR)	8 External factors (Have taken all the necessary precautions to prevent the loss from occurring and still cannot prevent it)

ENTACT Incident Investigation / Near Loss Investigation

Injury or Illness Information		No injuries	
Date of Injury or Onset of Illness	N/A		
Employee's Specific Activity	N/A		
Equipment, Materials, or Chemicals Used	N/A		
Specific Injury or Illness	N/A		
Treatment Provider Name & Address	N/A	Phone No	
Hospital Name & Address (if hospitalized)	N/A	Phone No	
Employee Missed Work? (other than day of injury)	<input type="checkbox"/> No <input type="checkbox"/> Yes, first day absent was:		
Returned To Work?	<input type="checkbox"/> No <input type="checkbox"/> Yes, first day back was:		
Others Injured?	<input type="checkbox"/> No <input type="checkbox"/> Yes If yes, provide names:		

Third Party Incident Information			
Description of Damage			
Owner Name & Address		Phone No	
Witness1 Name & Address		Phone No	
Witness2 Name & Address		Phone No	

LESSONS LEARNED

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: 6/3/2010
 Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal Project No.: 2027.08, Task 10
 Client Name: Tronox LLC
 Weather: Clear Temperature: 100's
 Site Conditions: Breezy

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barron

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Dewin Gordon</u>	<u>NDEP Representative (McIntyre & Assoc.)</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

Field Activity Report



environmental management, inc.

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Page 1 of 2

Date: 6/3/2010

Recorded By:

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 / 1 330 Backhoe /
2 D6 Dozers / 2 Wheel trucks / 1 MH Motor grader
1 Street Sweeper

Comments:

No change order work

Waste Transport and Disposal Summary:

Transporter(s):

Assorted

Transporter Equipment:

No. 2 95 Type: Bottom Dump
No. Type:
No. Type:

Waste Type/Classification:

Soil/Non-Hazardous Waste, Waste Profile No. 3825104167
Apex Landfill, 13550 North US Highway 93, Las Vegas, Nevada

Disposal Facility:

Comments:

General Activities Summary:

- ENTACT controlled dust effectively all day
- ENTACT uncovered 8" abandoned SW gas line without incident
- ENTACT transported 156 loads of material to Apex Landfill

Print Name: Jim Carolan

Signature:



FIELD ACTIVITY DAILY LOG

DATE: 6/3
 DAY:

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

1.0 Summary of Construction Locations and Activities
A and B From North to South

2.0 Daily Production
truck loads 156

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>batc</u>
<u>1</u>	Street Sweeper		
<u>3</u>	Big Gun Sprinklers		Daily Activities Start Time: <u>6 AM</u>
<u>1</u>	Other: <u>330 Hoc</u>		Daily Activities Stop Time: <u>6 PM</u>

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

5.0 Incidents affecting Production: 8 in Gas Line not at the right Elev 1775 it was put in top of RR grade

WEATHER CONDITION SUMMARY	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input type="checkbox"/>

PROJECT MANAGER: Bob Ainslie

SIGNATURE: [Signature] DATE: 6/3

Field Activity Report



environmental management, inc.

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Page 4 of 2

Date: 6/5/2010

Recorded By: Jim Gordon

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: 105-110°

Site Conditions: Breezy

NORTHGATE PERSONNEL ON-SITE

Jim Gordon, Frank

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devon Gordon</u>	<u>NDEP Representative</u>	<u>~6:30</u>	<u>~6:30</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>10</u>	

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

see page 2

Field Activity Report



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

Date: 6/5/2010
Recorded By: Jim Carolan

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 CAT345C Excavators / 1 330 Excavator
2 Dozers, 2 Water Trucks, 1 14ft motor grader
1 street sweeper

Comments: No change order work performed.

Waste Transport and Disposal Summary:

Transporter(s): Assorted
Transporter Equipment: No. ~37 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: Overhead excavator (400) stalled in center of 9th street / process road intersection makes navigation difficult but ENTACT / trucks are able to perform work without significant delays

General Activities Summary:

- ENTACT provided sufficient dust control all day
- ENTACT transported 176 loads of material to Apex Landfill

Print Name: Jim Carolan Signature: James M Carolan



FIELD ACTIVITY DAILY LOG

DATE:	6/5
DAY:	

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

1.0 Summary of Construction Locations and Activities
working out of A and B

2.0 Daily Production
TRUCK Loads 176

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
<u>2</u>	CAT 345 Excavators	<u>2</u>	Management Personnel
<u>2</u>	D6 Dozers	<u>5</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: <i>Gate</i>
<u>1</u>	Street Sweeper		
<u>3</u>	Big Gun Sprinklers		Daily Activities Start Time: <u>6 AM</u>
<u>1</u>	Other: <u>330 Hoe</u>		Daily Activities Stop Time: <u>6 PM</u>

4.0 Safety Related Topics (meetings, incidents, etc.): 400 Hoe in road way
(Heat)

5.0 Incidents affecting Production: 400 Hoe in road way

WEATHER CONDITION SUMMARY <i>Sunny</i> <i>108</i>	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input type="checkbox"/>

PROJECT MANAGER: Bob Ainslie

SIGNATURE: *[Signature]* DATE: 6/5

Field Activity Report



environmental management, inc.

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Page 1 of 2

Date: 6/7/2010

Recorded By: Jim Carlson

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: 100-110°

Site Conditions: Breezy to windy in afternoon

NORTHGATE PERSONNEL ON-SITE

Jim Carlson, Francisco Barron

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>NDEP representative (McGinty & Assoc.)</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>10</u>	

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

see page 2

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 2 of 2

Date: 6/7/2010

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 Grader Trucks, 1 Hit Molo grader
 1 street sweeper.

Comments:

No change order work

Waste Transport and Disposal Summary:

Transporter(s):

Assorted

Transporter Equipment:

No. ~37 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:

General Activities Summary:

- ENTACT pushes stalled 400 Excavator off of road (it was creating a blockage with 345C excavator a D6 Dozer
- ENTACT orders work stoppage related to 400 Excavator at ~6:30 but does not implement it.
- ENTACT uncovers vault in southwestern portion of manganese tailings, just south of estimated E-W alignment of sewer. Vault appears to be process liquid conveyance but Tronox will confirm on 6/8/2010 (Gilbert Buco will take a look. ENTACT can safely work around the vault structure. No remove manganese tailings. No plans to remove/demolish structure at this time.

Print Name: Jim Carlson

Signature: Jim M C



FIELD ACTIVITY DAILY LOG

DATE:	6/17
DAY:	

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

1.0 Summary of Construction Locations and Activities
working in A and C with load out from north to south

2.0 Daily Production
truck loads 169

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
<u>2</u>	CAT 345 Excavators	<u>2</u>	Management Personnel
<u>2</u>	D6 Dozers	<u>5</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: <i>butt</i>
<u>1</u>	Street Sweeper		
<u>3</u>	Big Gun Sprinklers		Daily Activities Start Time: <u>6 AM</u>
<u>1</u>	Other: <u>330 Hoe</u>		Daily Activities Stop Time: <u>6 PM</u>

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

5.0 Incidents affecting Production: Shut in roadway Remove it with 345 Hoe and D6 Dozer

WEATHER CONDITION SUMMARY <i>Sunny winds 15/25 10g</i>	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input type="checkbox"/>

PROJECT MANAGER: Bob Ainslie

SIGNATURE: *Bob Ainslie* DATE: 6/17

Field Activity Report



environmental management, inc.

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Page 1 of 2

Date: 6/8/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: 95-100°

Site Conditions: Breezy

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barron

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>NDEP Representative (McGinty & Assoc.)</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>10</u>	

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

see page 2

Field Activity Report



environmental management, inc.

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Page 2 of 2

Date: 6/8/2010

Recorded By: Jim Carlson

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:

2 CAT 345 Excavators, 1 330 Excavator, 2 D6
Dozers, 2 Walk trucks, 1 HWH Moto grader,
1 street sweeper

Comments:

No change order work

Waste Transport and Disposal Summary:

Transporter(s):

Assorted

Transporter Equipment:

No. ~37 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:

General Activities Summary:

- ENTACT effectively controlled dust all day
- ENTACT transported 173 loads of material to Apex landfill
- ENTACT uncovered 2 Acid/Drain vaults/manholes in the western/southwestern portion of the manganese tailings. Northgate delineated area.

Print Name: Jim Carlson

Signature: [Handwritten Signature]



FIELD ACTIVITY DAILY LOG

DATE:	6/8
DAY:	

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

1.0 Summary of Construction Locations and Activities
working A and C from North to South loading truck

2.0 Daily Production
truck loads 173

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
<u>2</u>	CAT 345 Excavators	<u>2</u>	Management Personnel
<u>2</u>	D6 Dozers	<u>5</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: <i>base</i>
<u>1</u>	Street Sweeper		
<u>3</u>	Big Gun Sprinklers		Daily Activities Start Time: <u>6 AM</u>
<u>1</u>	Other: <u>330 Hpc</u>		Daily Activities Stop Time: <u>6 PM</u>

4.0 Safety Related Topics (meetings, incidents, etc.): *make sure you zip vest when working around equipment*

5.0 Incidents affecting Production: *none take out on plains*

WEATHER CONDITION SUMMARY <i>Sunny</i> <i>winds 5/15</i>	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input type="checkbox"/>

PROJECT MANAGER: Bob Ainslie

SIGNATURE: *Bob Ainslie* DATE: 6/8

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: 6/9/2010
 Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal Project No.: 2027.08, Task 10
 Client Name: Tronox LLC
 Weather: Clear Temperature: 95-100°
 Site Conditions: Breezy, windy in afternoon

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barron, Patrick Ferringer.

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>2</u>	<u>11</u>	

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

see page 2

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 2 of 2

Date: 6/9/2010

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:

2 CAT 345C Excavators, 2 Dozers
1 330 Excavator, 2 Water Trucks, 1
Street Sweeper.

Comments:

No change order work

Waste Transport and Disposal Summary:

Transporter(s):

Assorted.

Transporter Equipment:

No. Type:

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:

* ENTACT transported 180 loads of material to Apex Landfill.

General Activities Summary:

- * ENTACT effectively controlled dust all day.
- * Northgate marked out location of sanitary sewer manhole related to active EW trending sewer alignment underlying the manganese tailings.

Print Name: Jim Carolan

Signature:



FIELD ACTIVITY DAILY LOG

DATE:	
DAY:	6/9

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

1.0 Summary of Construction Locations and Activities
working from North to south leading
TRUCKS B/C

2.0 Daily Production
TRUCKS loads 180

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
<u>2</u>	CAT 345 Excavators	<u>2</u>	Management Personnel
<u>2</u>	D6 Dozers	<u>5</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>3</u>	Laborers
<u>1</u>	14H Motor Graders	<u>1</u>	Other: Gate
<u>1</u>	Street Sweeper		
<u>3</u>	Big Gun Sprinklers		
<u>1</u>	Other: <u>330 Hoe</u>		

Daily Activities Start Time: 6 AM
Daily Activities Stop Time: 6 PM

4.0 Safety Related Topics (meetings, incidents, etc.): USE the right PPE for the Job

5.0 Incidents affecting Production:

WEATHER CONDITION SUMMARY <i>Sunny 98 winds 5/30</i>	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input type="checkbox"/>

PROJECT MANAGER: Bob Ainslie

SIGNATURE: *[Signature]* DATE: 6/9

Field Activity Report



environmental management, inc.

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 Tel: (510) 839-0688 Fax: (510) 839-4350

Page 1 of 2

Date: 6/10/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: clear

Temperature: 95-100°

Site Conditions: Breezy, Windy in afternoon

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barron, Patrick Ferrigno

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>2</u>	<u>10</u>	

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

see page 2

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 2 of 2

Date: 6/10/2010
Recorded By: Jim Carolen

Project Name: Manganese Tailings Removal
Client Name: Tronox LLC

Project No.: 2027.08, Task 10

EXACVATION ACTIVITIES SUMMARY

Excavation Summary:

Excavation Contractor:
Excavation Equipment:

ENTACT
2 345C Excavators, 2 D6 Dozers,
2 Water Trucks, 1 141T grader,
1 Street Sweeper

Comments:

Change Order Work; CAT 330 Excavator with
Thumb attachment for debris handling and
pot-holing for sanitary sewer manhole in manganese
tailings

Waste Transport and Disposal Summary:

Transporter(s):
Transporter Equipment:

Assorted
No. 1-38 Type: bottom dumps
No. Type:
No. Type:

Waste Type/Classification:
Disposal Facility:

Soil/Non-Hazardous Waste, Waste Profile No. 3825104167
Apex Landfill, 13550 North US Highway 93, Las Vegas, Nevada

Comments:

General Activities Summary:

- ENTACT effectively controlled dust all day
- ENTACT pot-holed for sanitary sewer manhole in manganese tailings (see attachment)
- ENTACT transported 170 loads of material to Apex landfill.

Print Name: Jim Carolen

Signature: Jim Carolen

- ~ 0900 ENTACT & NORTHGATE POT HOLE FOR SANITARY SEWER MANHOLE COVER/ STRUCTURE IN CENTRAL PORTION OF MANGANESE TAILINGS. SANITARY SEWER ALIGNMENT IS ~ E-W. MANHOLE LOCATION IS ESTIMATED FROM DRAWINGS. JIM HAMPTON PROVIDES MEASUREMENTS. ENTACT USES CAT 345C EXCAVATOR (operated by Bob Ainsle) and 1 laborer.
- ~ 1100 ENTACT & NORTHGATE ARE NOT SUCCESSFUL LOCATING MANHOLE. POT HOLE IS ~ 20' x 10' at base with 1:1 slopes/benches in all 4 directions. NORTHGATE/ENTACT used hand tools (probe, shovels) to search for manhole. Dimension over expanded from ~ 10 feet deep to ~ 12' deep. → and several feet in each lateral direction.
- ~ 1130 ENTACT discovers manhole with probe. ENTACT uses excavator to clean area around manhole cover → ENTACT/Northgate observe that the manhole is inclined at an $\approx 20^\circ$ angle and are concerned that the structure may have been previously damaged.
- ~ 1145 - 1215 ENTACT/Northgate determine that the manhole cover is not connected to the sanitary sewer. It appears that the manhole cover was displaced and sheared off at a previous time. Northgate did observe brick fragment ≈ 15 feet to the east of the location of the manhole cover.
- ~ 1225 JMC notifies John Holmstrom after discussing issue with Jim Hampton.
- ~ 1235 John Holmstrom & Robert Saldner of Tronox arrive onsite. Prepare to assess situation (evaluate if sanitary sewer is operating correctly, mobilize a camera to inspect sanitary sewer, and make any necessary repairs.
- ~ 1330 Tronox takes lead on issue. Northgate and ENTACT will assist as requested.



FIELD ACTIVITY DAILY LOG

DATE: 6/10

DAY:

PROJECT NAME: Tronox Tailings Removal Project

PROJECT NO.: E-7856

LOCATION: Henderson, NV

1.0 Summary of Construction Locations and Activities

*working from North to South
in A/C loading truck*

2.0 Daily Production

truck loads 170

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>5</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: <i>Gate</i>
<u>1</u>	Street Sweeper		
<u>3</u>	Big Gun Sprinklers		Daily Activities Start Time: <u>6 AM</u>
<u>1</u>	Other: <u>330 Hoe</u>		Daily Activities Stop Time: <u>6 PM</u>

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

what Gate to use to EXST

5.0 Incidents affecting Production:

NA

WEATHER CONDITION SUMMARY

*Sunny
96
winds 15/30*

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

looking for 55 man hole

Extra Work Tag Attached:



PROJECT MANAGER: Bob Ainslie

SIGNATURE:

Bob Ainslie

DATE:

6/10

Field Activity Report



environmental management, inc.

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Page 1 of 2

Date: 6/11/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: 85 to 90°

Site Conditions: Breezy to windy in afternoon

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barron, Patrick Ferringer

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin 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>10</u>	

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

see page 2

Field Activity Report



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Page 1 of 2

Date: 6/11/2010
Recorded By: Jim Cardan

Project Name: Manganese Tailings Removal
Client Name: Tronox LLC

Project No.: 2027.08, Task 10

EXCAVATION ACTIVITIES SUMMARY

Excavation Summary:

Excavation Contractor:
Excavation Equipment:

ENTACT

2 CAT 345C Excavators, 2 D6 Dozers,
2 Water Trucks, 1 14ft Molo grader
1 street sweeper.

Comments:

Change Order Work; CAT 345C excavator utilized
for debris handling.

Waste Transport and Disposal Summary:

Transporter(s):
Transporter Equipment:

Assorted

No. 38 Type: Bottom dump.
No. Type:
No. Type:

Waste Type/Classification:
Disposal Facility:

Soil/Non-Hazardous Waste, Waste Profile No. 3825104167
Apex Landfill, 13550 North US Highway 93, Las Vegas, Nevada

Comments:

ENTACT transported 184 loads of material to
Apex Landfill.

General Activities Summary:

- ENTACT effectively controlled dust all day
- ENTACT and Northgate responded to a dust complaint along 4th Avenue / Eastgate at 4:00 pm. ENTACT immediately soaked the area with 2 water trucks, provided contact information to Orkin Pest Control (who provided the complaint) and immediately stepped up dust control along 4th Avenue.

Print Name: Jim Cardan

Signature:



FIELD ACTIVITY DAILY LOG

DATE:	6/11
DAY:	

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

1.0 Summary of Construction Locations and Activities
*working A and C with load out
 North to south*

2.0 Daily Production
truck loads 184

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
<u>2</u>	CAT 345 Excavators	<u>2</u>	Management Personnel
<u>2</u>	D6 Dozers	<u>5</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: <i>gate</i>
<u>1</u>	Street Sweeper		
<u>3</u>	Big Gun Sprinklers		Daily Activities Start Time: <u>6 AM</u>
<u>1</u>	Other: <u>380 Hoe</u>		Daily Activities Stop Time: <u>6 PM</u>

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

5.0 Incidents affecting Production: Dust in parking lot 4 PM

WEATHER CONDITION SUMMARY <i>Sunny 89 winds 5/20</i>	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input checked="" type="checkbox"/>

PROJECT MANAGER: Bob Ainslie

SIGNATURE: *[Signature]* DATE: 6/11

Field Activity Report



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Page 1 of 2

Date: 6/15/2010

Recorded By: Jim Corolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: Low 100's

Site Conditions: Breezy to Windy

NORTHGATE PERSONNEL ON-SITE

Jim Corolan, Francisco Barron, Patrick Feringer

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>NDEP Representative</u>	<u>0630</u>	<u>~1630</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

Field Activity Report



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Page 2 of 2

Date: 6/15/2010
Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal
Client Name: Tronox LLC

Project No.: 2027.08, Task 10

EXCAVATION ACTIVITIES SUMMARY

Excavation Summary:

Excavation Contractor:
Excavation Equipment:

ENTACT
2 CAT 345C Excavators, 2 Dozers,
2 Water Trucks, 1 14ft Moto Grader
1 street sweeper

Comments:

CAT 330 Excavator utilized to handle concrete debris (i.e. change order work)

Waste Transport and Disposal Summary:

Transporter(s):
Transporter Equipment:

Assorted.
No. 137 Type: Bottom dump.
No. Type:
No. Type:

Waste Type/Classification:
Disposal Facility:

Soil/Non-Hazardous Waste, Waste Profile No. 3825104167
Apex Landfill, 13550 North US Highway 93, Las Vegas, Nevada

Comments:

ENTACT delivered 160 loads of material to Apex Landfill -> some issues with traffic delays due to accidents on I-15 and Hwy 93.

General Activities Summary:

- ENTACT worked around the suspected location of the sanitary sewer structure in the manganese tailing.
- ENTACT effectively controlled dust all day.

Print Name:

Jim Carolan

Signature:



FIELD ACTIVITY DAILY LOG

DATE:	6/15
DAY:	

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

1.0 Summary of Construction Locations and Activities
*working in B and C North to South
 Loading out trucks*

2.0 Daily Production
Truck Loads 160

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
<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: <i>gate</i>
<u>1</u>	Street Sweeper		
<u>3</u>	Big Gun Sprinklers		Daily Activities Start Time: <u>6 AM</u>
<u>1</u>	Other: <u>330 Huc</u>		Daily Activities Stop Time: <u>6 PM</u>

4.0 Safety Related Topics (meetings, incidents, etc.): The right shoe for your Job

5.0 Incidents affecting Production:

WEATHER CONDITION SUMMARY <i>Sunny 102 winds 5/30</i>	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <div style="border: 1px solid black; width: 40px; height: 40px; text-align: center; margin: 10px auto;">4</div>

PROJECT MANAGER: Bob Ainslie	DATE: 6/15
SIGNATURE: <i>[Signature]</i>	



EXTRA WORK TAG

DATE:

6/15

DAY:

PROJECT NAME: Tronox Tailings Removal Project

PROJECT NO.: E-7856

LOCATION: Henderson, NV

1. Summary of Construction Locations and Activities

working in DRC north to south
removing concrete bigger than 2 foot
concrete debris handling

2.0 Daily Production

3.0 Equipment Onsite

<u>Utilized</u>	<u>Description</u>	<u>Daily Start Time</u>	<u>Daily Stop Time</u>
<u>1</u>	Equipment - 330 Excavator	<u>1 PM</u>	<u>6 PM</u>
<u>1</u>	Materials - Fuel	<u> </u>	<u> </u>
<u>1</u>	Labor - Operator	<u> </u>	<u> </u>
<u> </u>	Equipment - On-road Single Dumps	<u> </u>	<u> </u>
<u> </u>	Other: <u> </u>	<u> </u>	<u> </u>

4.0 Additional Information and Notes for Extra Work:

work around man hole

Entact Signature:

DATE:

6/15

Northgate Signature:

DATE:

6/16

Field Activity Report



environmental management, inc.

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Page 1 of 2

Date: 6/16/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal **Project No.:** 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear **Temperature:** 90's

Site Conditions: Breezy to Windy

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barron, Patrick Ferringer

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>NDEP Representative</u>	<u>~6:30</u>	<u>~10:30</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.

Field Activity Report



environmental management, inc.

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Page 2 of 2

Date: 6/16/2010

Recorded By: Jim Carolan

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 Dozers,
2 Water trucks, 144H Grader /
1 street sweeper

Comments:

CAT 330 Excavator used for concrete debris handling and sanitary sewer vault handling until work shut down at 11:00 am

Waste Transport and Disposal Summary:

Transporter(s):

Assokol

Transporter Equipment:

No. ~37 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:

ENTACT transported 71 loads of material to Apex Landfill prior to work stoppage.

General Activities Summary:

- ENTACT effectively controlled dust through the work day
- Work was stopped at 11:00 due to a fire in the AP Maint. Shop (just west of Northgate Field Marker). The work area was evacuated and no other work occurred for day

Print Name:

Jim Carolan

Signature:



EXTRA WORK TAG

DATE:

6/16

DAY:

PROJECT NAME: Tronox Tailings Removal Project

PROJECT NO.: E-7856

LOCATION: Henderson, NV

1. Summary of Construction Locations and Activities

*Working in ABC Removing concrete
and oversize rubble stop work due to
fire at 11 AM in AP Shop*

2.0 Daily Production

two loads to land fill

3.0 Equipment Onsite

<u>Utilized</u>	<u>Description</u>	<u>Daily Start Time</u>	<u>Daily Stop Time</u>
<u> 1 </u>	Equipment - 330 Excavator	<u> 6 AM </u>	<u> 11 AM </u>
<u> 1 </u>	Materials - Fuel	_____	_____
<u> 1 </u>	Labor - Operator	_____	_____
_____	Equipment - On-road Single Dumps	_____	_____
_____	Other: _____	_____	_____

4.0 Additional Information and Notes for Extra Work:

*fire at AP Shop stop work
at 11 AM*

Entact Signature:

[Signature]

DATE:

6/16

Northgate Signature:

[Signature]

DATE:

6/17/2010

From: [Jim Carolan](#)
To: derrick.willis@ngem.com; ted.splitter@ngem.com; "Jim Hampton"
Cc: "Crowley, Susan [Contractor]"; "Chris Danges"
Subject: Work Stoppage on June 16, 2010/ENTACT Schedule for June 17, 2010
Date: Wednesday, June 16, 2010 5:28:00 PM

Good evening,

As I mentioned in a previous e-mail, the work was suspended at 1030 am this morning after a fire broke out in the AP Maintenance Shop. All of the trucks were redirected/shut down for day and all ENTACT personnel were evacuated from the site. I spoke to Mike Skromyda of Tronox this afternoon and he gave me the go ahead for ENTACT to return to work in the morning. All of ENTACT's trucking is lined up and we should be back on track.

Just prior to this incident, Tronox was able to survey the location of the sanitary sewer vault under the manganese tailings. The surveyors had just marked the location (right about where we thought it was) when the fire occurred and work was suspended. ENTACT, Northgate, and John Holmstrom of Tronox agreed that ENTACT could place steel plate over the surveyed location to protect the sanitary sewer structure and continue work. ENTACT will return to this location near the end of the manganese tailings removal task to remove any remaining manganese tailings.

Please feel free to call with questions.

Thanks, Jim

Jim Carolan, PG., CHG
Senior Geologist

Northgate Environmental Management, Inc.
300 Frank H. Ogawa Plaza, Suite 510, Oakland, CA 94612
general (510) 839-0688; fax (510) 839-4350
cell: (510) 504-6927
e-mail: jim.carolan@ngem.com
<http://www.ngem.com>

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FIELD ACTIVITY DAILY LOG

DATE:	6/16
DAY:	

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

1.0 Summary of Construction Locations and Activities
working BC North to South
STOP work Do to Fire

2.0 Daily Production
truck loads 71

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: <i>gate</i>
<u>1</u>	Street Sweeper		
<u>3</u>	Big Gun Sprinklers		Daily Activities Start Time: <u>6 AM</u>
<u>1</u>	Other: <u>330 box</u>		Daily Activities Stop Time: <u>11 AM</u>

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

5.0 Incidents affecting Production: fire in side

WEATHER CONDITION SUMMARY	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input checked="" type="checkbox"/>

PROJECT MANAGER: Bob Ainslie

SIGNATURE: *[Signature]* DATE: 6/16

Field Activity Report



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Page 1 of 2

Date: 6/17/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: Low 90's

Site Conditions: Breezy

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barron, Patrick Ferringer

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>NDEP Representative</u>	<u>~ 1200</u>	<u>~ 1630</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.

Field Activity Report



environmental management, inc.

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Page 2 of 2

Date: 6/17/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal
Client Name: Tronox LLC

Project No.: 2027.08, Task 10

EXACVATION ACTIVITIES SUMMARY

Excavation Summary:

Excavation Contractor:
Excavation Equipment:

ENTACT

2 CAT 345 Excavators, 2 Db Dozers
2 4,000-gallon water trucks, 1K12 Grader,
1 Street Sweeper.

Comments:

1 CAT 330 Excavator utilized to handle concrete debris + place steel plate over surveyed location of sanitary sewer manhole in manganese tailings pile. (i.e. change order work)

Waste Transport and Disposal Summary:

Transporter(s):
Transporter Equipment:

No. ^{Assoled.} ~ 35 Type: Bottom dump.
No. Type:
No. Type:

Waste Type/Classification:
Disposal Facility:

Soil/Non-Hazardous Waste, Waste Profile No. 3825104167
Apex Landfill, 13550 North US Highway 93, Las Vegas, Nevada

Comments:

ENTACT transported 104 loads of material to Apex Landfill.

General Activities Summary:

- ENTACT effectively controlled dust all day.
- ENTACT received final groundbreaking permit for manganese tailings removal. Bob Anisiel of ENTACT has original hard copy in the field. Scanned versions sent to ENTACT management.

Print Name: Jim Carolan

Signature: [Handwritten Signature]



FIELD ACTIVITY DAILY LOG

DATE:	6/17
DAY:	

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

1.0 Summary of Construction Locations and Activities
*working in B and C North to South
 loading truck put 4/8 shot steel over man
 hole*

2.0 Daily Production
Truck loads 164

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
<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: Gate
<u>1</u>	Street Sweeper		
<u>3</u>	Big Gun Sprinklers		Daily Activities Start Time: <u>6 AM</u>
<u>1</u>	Other: <u>330</u>		Daily Activities Stop Time: <u>6 PM</u>

4.0 Safety Related Topics (meetings, incidents, etc.): fire at AP shop

5.0 Incidents affecting Production: NA

WEATHER CONDITION SUMMARY <i>Sunny 90 wind's 5/10</i>	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input type="checkbox"/>

PROJECT MANAGER: Bob Ainslie
SIGNATURE: <i>[Signature]</i> DATE: 6/17



EXTRA WORK TAG

DATE:	6/17
DAY:	

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

1. Summary of Construction Locations and Activities

working in ABC removing concrete
and over size rubble

2.0 Daily Production

3.0 Equipment Onsite

<u>Utilized</u>	<u>Description</u>	<u>Daily Start Time</u>	<u>Daily Stop Time</u>
/	Equipment - 330 Excavator	6 AM	6 PM
/	Materials - Fuel	_____	_____
/	Labor - Operator	_____	_____
_____	Equipment - On-road Single Dumps	_____	_____
_____	Other: _____	_____	_____

4.0 Additional Information and Notes for Extra Work:

putting steel plate over man hole

Entact Signature: <i>[Signature]</i>	DATE: 6/17
--------------------------------------	------------

Northgate Signature: <i>[Signature]</i>	DATE: 6/18/2010
---	-----------------

Field Activity Report



environmental management, inc.

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Tel: (510) 839-0688 Fax: (510) 839-4350

Page 1 of 2

Date: 6/18/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: 90's

Site Conditions: Breezy in morning, windy in afternoon

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Patrick Ferringer, Francisco Barron

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>2</u>	<u>9</u>	

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

see page 2

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 2 of 2

Date: 6/18/2010
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: 2 CAT 345 Excavators, 2 D6 Dozers,
2 Water trucks, 1 14ft Moto grader,
1 Street sweeper

Comments: No change order work

Waste Transport and Disposal Summary:

Transporter(s): Assorted.
Transporter Equipment: No. ~38 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: • ENTACT transported 179 loads of material to Apex Landfill.

General Activities Summary:

• ENTACT effectively controlled dust all day.
• Patrick E Francisco accepted and inventoried indoor air sampling equipment 6/21/10

Print Name: Jim Carolan Signature: Jim Carolan



FIELD ACTIVITY DAILY LOG

DATE: 6/18
 DAY: _____

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

1.0 Summary of Construction Locations and Activities
working in C North to South loading
TRUCKS

2.0 Daily Production
Truck loads 179

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
<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		
<u>1</u>	Other: <u>330 huc</u>		

Daily Activities Start Time: 6 AM
 Daily Activities Stop Time: 6 PM

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

5.0 Incidents affecting Production: IVA

WEATHER CONDITION SUMMARY <u>SUNNY</u> <u>winds 5/30</u>	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input type="checkbox"/>

PROJECT MANAGER: Bob Ainslie

SIGNATURE: [Signature] DATE: _____

Field Activity Report



environmental management, inc.

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Page 1 of 2

Date: 6/19/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: 95-100°

Site Conditions: Breezy morning, windy afternoon

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barron

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>None</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>8</u>	

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

see page 2

Field Activity Report



environmental management, inc.

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Page 2 of 2

Date: 6/19/2010
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: 2 CAT 345 C Excavators, 2 D6 Dozers,
2 Water Trucks, 1 14H Moto grader,
1 street sweeper, 1 330 Excavator

Comments: No change order work performed!

Waste Transport and Disposal Summary:

Transporter(s): Assorted
Transporter Equipment: No. ~38 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: ENTACT transported 159 loads of material to Apex landfill!

General Activities Summary:

ENTACT controlled dust effectively all day.

Print Name: Jim Carolan Signature: [Signature]



FIELD ACTIVITY DAILY LOG

DATE:

6/19

DAY:

PROJECT NAME: Tronox Tailings Removal Project

PROJECT NO.: E-7856

LOCATION: Henderson, NV

1.0 Summary of Construction Locations and Activities*working A and C North to South***2.0 Daily Production***truck loads 159***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>3</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>0</u>	14H Motor Graders	<u>1</u>	Other: <i>gate</i>
<u>1</u>	Street Sweeper		
<u>3</u>	Big Gun Sprinklers		Daily Activities Start Time: <u>6 AM</u>
<u>1</u>	Other: <u>370</u>		Daily Activities Stop Time: <u>6 PM</u>

4.0 Safety Related Topics (meetings, incidents, etc.):*leson's kernel***5.0 Incidents affecting Production:***NA***WEATHER CONDITION SUMMARY***Sunny
98
winds 5/30***CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:**

Extra Work Tag Attached:



PROJECT MANAGER: Bob Ainslie

SIGNATURE:

Bob Ainslie

DATE:

6/19

Field Activity Report



environmental management, inc.

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Page 1 of 2

Date: 6/23/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: 95-102°

Site Conditions: Breezy morning, windy afternoon

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barron, Patrick Ferringer, Renee Kalamas, Axel Reicke

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>NDP Representative</u>	<u>~1100</u>	<u>~1230</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>8</u>	

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

see page 2

Field Activity Report



environmental management, inc.

300 Frank H. Ogawa Plaza, Suite 510, Oakland, CA 94612
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Page 2 of 2

Date: 6/21/2010

Recorded By: Jim Carolan

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 345 Excavators, 2 D6 Dozers
2 wheel trucks 1 14 ft motor grader,
1 street sweeper.

Comments:

CAT 300 Used to handle concrete debris and handle/remove 6mm Tronox power poles in southern portion of manganese tails. Work will be included with work on 6/22 on a 6/22 change order form.

Waste Transport and Disposal Summary:

Transporter(s):

Associated

Transporter Equipment:

No. ~ 35 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:

ENTACT transported 199 loads of material to Apex landfill.

General Activities Summary:

ENTACT effectively controlled dust all day.

Print Name:

Jim Carolan

Signature:

James M. Carolan



FIELD ACTIVITY DAILY LOG

DATE:

6/21

DAY:

PROJECT NAME: Tronox Tailings Removal Project

PROJECT NO.: E-7856

LOCATION: Henderson, NV

1.0 Summary of Construction Locations and Activities

working in a/c North to south
 Loading Truck Removing oversize Rubble two
 trucks started at 1230 PM 4 Loads to Landfill

2.0 Daily Production

Truck Loads 149

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
<u>2</u>	CAT 345 Excavators	<u>2</u>	Management Personnel
<u>2</u>	D6 Dozers	<u>3</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>0</u>	14H Motor Graders	<u>1</u>	Other: Gate
<u>1</u>	Street Sweeper		
<u>3</u>	Big Gun Sprinklers		Daily Activities Start Time: <u>1 PM</u>
<u>1</u>	Other: <u>330 Hoe</u>		Daily Activities Stop Time: <u>6 PM</u>

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

JSA Dag's work

5.0 Incidents affecting Production:

N/A

WEATHER CONDITION SUMMARY

Sunny
 102
 Wind S/35

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

use 330 hoe to Dag for loading
 concrete and removing Power
 pole's

Extra Work Tag Attached:



PROJECT MANAGER: Bob Ainslie

SIGNATURE:

DATE:

6/21

Field Activity Report



environmental management, inc.

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Page 1 of 2

Date: 6/23/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: 100 - 105°

Site Conditions: Breezy

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barron (drilling), Patrick Ferringer (drilling)

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>NDEP Representative</u>	<u>~1000</u>	<u>~1700</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>8</u>	

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

see page 2

Field Activity Report



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Page 2 of 2

Date: 6/23/2010
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: 2 CAT 345C Excavators, 2 Dozers
2 Wheel trucks, 1 street sweeper
1 330 Excavator

Comments: No change order work

Waste Transport and Disposal Summary:

Transporter(s): Assorted
Transporter Equipment: No. ~35 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: ENTACT transported 175 loads of material to Apex landfill.

General Activities Summary:

- ENTACT effectively controlled dust all day
- ENTACT (Bob Ainslie) complained that Olin trucks were parking in city street and getting out of their trucks to do paperwork etc. He felt that these trucks were impeding his progress and was a H&S hazard. Jim Carolan asked ENTACT to submit a notification of the problem in writing so that Tronox could coordinate with Olin. The notification was promised on 6/23/2010 but not submitted.

Print Name: Jim Carolan Signature: [Signature]



FIELD ACTIVITY DAILY LOG

DATE:	6/23
DAY:	

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

1.0 Summary of Construction Locations and Activities
working R C North to south

2.0 Daily Production
truck loads 175

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>3</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>0</u>	14H Motor Graders	<u>1</u>	Other: <i>Gate</i>
<u>1</u>	Street Sweeper		
<u>3</u>	Big Gun Sprinklers		Daily Activities Start Time: <u>6 AM</u>
<u>1</u>	Other: <u>B30 hoe</u>		Daily Activities Stop Time: <u>6 PM</u>

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

5.0 Incidents affecting Production: truck's park in road way 55F.

WEATHER CONDITION SUMMARY <i>Sunny 104</i> <i>wind 10</i>	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: <hr/> <hr/> <hr/> <hr/> <hr/>	Extra Work Tag Attached: <div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;"></div>
--	--	--

PROJECT MANAGER: Bob Ainslie	
SIGNATURE: <i>[Signature]</i>	DATE: 6/23

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: 6/24/2010

Recorded By: Jim Carolan

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

Client Name: Tronox LLC

Weather: Clear Temperature: 105-110°

Site Conditions: Breezy to windy

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barran (drilling), Patrick Ferringe (drilling)

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Dawn Gordon</u>	<u>NDEP Representative</u>	<u>~ 0650</u>	<u>~ 1630</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>8</u>	

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

see page 2

Field Activity Report



environmental management, inc.

300 Frank H. Ogawa Plaza, Suite 510, Oakland, CA 94612
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Page 2 of 2

Date: 6/24/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal
Client Name: Tronox LLC

Project No.: 2027.08, Task 10

EXACVATION ACTIVITIES SUMMARY

Excavation Summary:

Excavation Contractor:
Excavation Equipment:

ENTACT
2 CAT 345C Excavators, 2 Dozers
2 wheel trucks, 1 sheet piling,
1 330 Excavator

Comments:

No change order; however ENTACT is actively working around active and inactive utilities.

Waste Transport and Disposal Summary:

Transporter(s):
Transporter Equipment:

Assmed
No. 38 Type: Bottom dump
No. Type:
No. Type:

Waste Type/Classification:
Disposal Facility:

Soil/Non-Hazardous Waste, Waste Profile No. 3825104167
Apex Landfill, 13550 North US Highway 93, Las Vegas, Nevada

Comments:

ENTACT transported 149 loads of material to the Apex Landfill.

General Activities Summary:

- ENTACT effectively controlled dust all day
- ENTACT received unauthorized instruction from Tronox personnel regarding excavation slopes/working around utilities and southern boundary of manganese tailings. Northgate had instructed ENTACT to maintain a 4:1 slope beginning at the new pole alignment (top of slope). Northgate met with Susan Crowley to ensure that inappropriate field direction does not occur again.

Print Name:

Jim Carolan

Signature:



FIELD ACTIVITY DAILY LOG

DATE: 6/24

DAY:

PROJECT NAME: Tronox Tailings Removal Project

PROJECT NO.: E-7856

LOCATION: Henderson, NV

1.0 Summary of Construction Locations and Activities

South working in A and C North to South

2.0 Daily Production

Truck loads 149

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
<u>2</u>	CAT 345 Excavators	<u>2</u>	Management Personnel
<u>2</u>	D6 Dozers	<u>3</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>0</u>	14H Motor Graders	<u>1</u>	Other: Gate
<u>1</u>	Street Sweeper		
<u>3</u>	Big Gun Sprinklers		Daily Activities Start Time: <u>6 AM</u>
<u>1</u>	Other: <u>330 hoe</u>		Daily Activities Stop Time: <u>6 PM</u>

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

work in around live lines

5.0 Incidents affecting Production:

N/A

WEATHER CONDITION SUMMARY

Sunny 106
winds 13

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

Extra Work Tag Attached:



PROJECT MANAGER: Bob Ainslie

SIGNATURE:

Bob Ainslie

DATE:

6/24

Field Activity Report



environmental management, inc.

300 Frank H. Ogawa Plaza, Suite 510, Oakland, CA 94612
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Page 1 of 2

Date: 6/25/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: 105 ~ 110°

Site Conditions: Breezy in morning, windy in afternoon

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barron (drilling), Patrick Ferling (drilling)

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>(NDEP Representative)</u>	<u>~7:00</u>	<u>~16:30</u>
<u>Shannon Harbor</u>	<u>NDEP</u>	<u>~13:00</u>	<u>~14:00</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>8</u>	

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

see page 2

Field Activity Report



environmental management, inc.

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Page 2 of 2

Date: 6/25/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal
Client Name: Tronox LLC

Project No.: 2027.08, Task 10

EXACVATION ACTIVITIES SUMMARY

Excavation Summary:

Excavation Contractor:
Excavation Equipment:

ENTACT

2 CAT 345 Excavators, 2 D6 Dozers,
2 4000 gallon water trucks, 1 street
sweeper, 1 330 Excavator

Comments:

No change order tag; however ENTACT is
actually working around active and inactive
utilities.

Waste Transport and Disposal Summary:

Transporter(s):
Transporter Equipment:

Assorted

No. 138 Type: Bottom dump.
No. Type:
No. Type:

Waste Type/Classification:
Disposal Facility:

Soil/Non-Hazardous Waste, Waste Profile No. 3825104167
Apex Landfill, 13550 North US Highway 93, Las Vegas, Nevada

Comments:

ENTACT transported 190 loads of material
to the Apex Landfill

General Activities Summary:

- ENTACT effectively controlled dust all day.
- Shannon Harbor of NDEP onsite but did not notify anyone of her presence. Northgate advised Devin Gordon that all state representatives must have a NDEP escort onsite.
- ENTACT raised issue of Olm trucks parking in the middle of 5th street.

Print Name: Jim Carolan

Signature:



FIELD ACTIVITY DAILY LOG

DATE: 6/25
 DAY: _____

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

1.0 Summary of Construction Locations and Activities
two hoes loading out of A and C at South End

2.0 Daily Production
truck loads 180

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
<u>2</u>	CAT 345 Excavators	<u>2</u>	Management Personnel
<u>2</u>	D6 Dozers	<u>3</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>0</u>	14H Motor Graders	<u>1</u>	Other: <u>base</u>
<u>1</u>	Street Sweeper		
<u>3</u>	Big Gun Sprinklers		
<u>1</u>	Other: <u>330 hoe</u>		

Daily Activities Start Time: 6 AM
 Daily Activities Stop Time: 6 PM

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

5.0 Incidents affecting Production: truck's in roadway on site and off 5:57

WEATHER CONDITION SUMMARY <u>Sunny 105 wind 30</u>	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input type="checkbox"/>

PROJECT MANAGER: Bob Ainslie
 SIGNATURE: [Signature] DATE: 6/25

Field Activity Report



environmental management, inc.

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Page 1 of 2

Date: 6/26/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: 105 - 110°

Site Conditions: Breezy

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barron

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>DN</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>8</u>	

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

see page 2

Field Activity Report



environmental management, inc.

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Page 2 of 2

Date: 6/26/2010
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: 2 CAT 345 Excavators, 2 Dozers,
2 4,000-gallon water trucks, 1 street
sweeper, 1 330 CAT excavator

Comments: No change order work.

Waste Transport and Disposal Summary:

Transporter(s): Assorted
Transporter Equipment: No. ~30 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: ENTACT transported 160 loads of material to Apex Landfill.

General Activities Summary:

ENTACT effectively controlled dust all day.

Print Name: Jim Carolan Signature: [Signature]



FIELD ACTIVITY DAILY LOG

DATE:

DAY:

6/26

PROJECT NAME: Tronox Tailings Removal Project

PROJECT NO.: E-7856

LOCATION: Henderson, NV

1.0 Summary of Construction Locations and Activities

working in B and C moving from north to south loading out trucks

2.0 Daily Production

TRUCK LOADS 160

3.0 Equipment / Personnel Onsite

Quantity Type

2 CAT 345 Excavators

2 D6 Dozers

2 4,000 Gallon Water Trucks

1 12,000 Gallon Water Towers

0 14H Motor Graders

1 Street Sweeper

3 Big Gun Sprinklers

1 Other: 330 hoe

Quantity Type

2 Management Personnel

3 Equipment Operators

2 Truck Drivers

2 Laborers

1 Other: fuel

Daily Activities Start Time: 6 AM

Daily Activities Stop Time: 6 PM

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

keeping your mind on your work

5.0 Incidents affecting Production:

NA

WEATHER CONDITION SUMMARY

sun 106
winds 15

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

Extra Work Tag Attached:



PROJECT MANAGER: Bob Ainslie

SIGNATURE:

[Handwritten Signature]

DATE:

6/26

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: 6/28/200

Recorded By: Jim Carola

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: 105 - 110°

Site Conditions: Breezy to Windy

NORTHGATE PERSONNEL ON-SITE

Francisco Barron, Patrick Ferringer (drilling)

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Darin Gordon</u>	<u>NDEP Representative</u>	<u>~ 1000</u>	<u>~ 1200</u>

CONTRACTORS

Primary Contractor Name: ENTACT **Phone No.:** 307-359-1141

Supervisor: Bob Ainslie / Erik Gehring **Task:** Manganese Tailings Removal Task

Company	No. of Supervisors	No. of Workers	Remarks
<u>ENTACT</u>	<u>3</u>	<u>8</u>	

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

See page 2

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 2 of 2

Date: 6/28/2010

Recorded By: Jim Carolan

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 345 Excavators, 2 D6 Dozers,
2 Water Trucks, 1 street sweeper

Comments:

ENTACT utilized 330 Excavator to handle concrete debris. 3 loads of debris transported to Apex Landfill (i.e. change order)

Waste Transport and Disposal Summary:

Transporter(s):

Assorted

Transporter Equipment:

No. ~30 Type: Bolton dump

No. 1 Type: end dump

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 transported 123 loads of manganese tailings and 3 loads of debris to Apex Landfill

General Activities Summary:

ENTACT effectively controlled dust all day

Print Name:

Jim Carolan

Signature:



FIELD ACTIVITY DAILY LOG

DATE: 6/28/10
 DAY: MONDAY

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

1.0 Summary of Construction Locations and Activities

2.0 Daily Production (SINGLES)
 123 LOADS (DOUBLES) TAILINGS, 3 LOADS DEBRIS

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
2	CAT 345 Excavators	3	Management Personnel
2	D6 Dozers	3	Equipment Operators
2	4,000 Gallon Water Trucks	2	Truck Drivers
1	12,000 Gallon Water Towers	2	Laborers
0	14H Motor Graders	1	Other: GATE
1	Street Sweeper		
3	Big Gun Sprinklers		Daily Activities Start Time: 6:00 AM
1	Other: 330 EXCAVATOR		Daily Activities Stop Time: 6:00 PM

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

5.0 Incidents affecting Production:

WEATHER CONDITION SUMMARY CLEAR TO PARTLY CLOUDY HIGH: 105°F LOW WIND 5mph	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input checked="" type="checkbox"/>
	LOCATED PROCESS MANHOLE IN MIDDLE OF SITE (STILL INTACT)	

PROJECT MANAGER: Bob Ainslie ERIK GERRINGER

SIGNATURE: Erik Gerringer DATE: 6/28/10



EXTRA WORK TAG

DATE:	6/28/10
DAY:	MONDAY

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

1. Summary of Construction Locations and Activities

SORT/SEGREGATE LARGE DEBRIS FROM TAILINGS. LOAD TRUCKS

2.0 Daily Production

3 LOADS HAULED TO LANDFILL

3.0 Equipment Onsite

<u>Utilized</u>	<u>Description</u>	<u>Daily Start Time</u>	<u>Daily Stop Time</u>
<u>6 HRS</u>	Equipment - 330 Excavator	<u>10:00 AM</u>	<u>4:00 PM</u>
<u>6 HRS</u>	Materials - Fuel	"	"
<u>6 HRS</u>	Labor - Operator	"	"
_____	Equipment - On-road Single Dumps	_____	_____
_____	Other: _____	_____	_____

3 LOADS DEBRIS HAULED TO LANDFILL

4.0 Additional Information and Notes for Extra Work:

Entact Signature: <i>Eric Gehring</i>	DATE: 6/28/10
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Northgate Signature: <i>J M C</i>	DATE: 6/29/10
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Field Activity Report



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Page 2 of 2

Date: 6/29/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: 105-110°

Site Conditions: Breezy

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barron (Drilling), Patrick Ferringe (Drilling)

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>NDEP Representative</u>	<u>0900</u>	<u>~1600</u>

CONTRACTORS

Primary Contractor Name: ENTACT Phone No.: 307-359-1141

Supervisor: Bob Ainsite Task: Manganese Tailings Removal Task
Erk Gehinger

Company	No. of Supervisors	No. of Workers	Remarks
<u>ENTACT</u>	<u>2</u>	<u>8</u>	

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

see page 2

Field Activity Report



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Page 2 of 2

Date: 6/29/2010
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: 2 CAT 345 C Excavators, 2 D6 Dozers, 2 Water Trucks, 1 Street Sweeper

Comments: ENTACT utilized 330 to handle and load concrete debris (i.e. change order). 4 loads of concrete transported to Apex Landfill.

Waste Transport and Disposal Summary:

Transporter(s): Assorted
Transporter Equipment: No. ~32 Type: Bottom dump
No. 4 Type: end dump
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 transported 150 loads of manganese tailings and 4 loads of concrete debris to Apex Landfill

General Activities Summary:

- ENTACT effectively controlled dust all day
- ENTACT performed excavation work within cooling tower foundation

Print Name: Jim Carolan Signature: Jim Carolan



FIELD ACTIVITY DAILY LOG

DATE: 6/29/10
 DAY: TUESDAY

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

1.0 Summary of Construction Locations and Activities
 LOAD/HAUL MN TAILINGS. SORT DEBRIS & LOAD.
 CLEAN D6 DOZER - LOCATED COOLING TOWER WALLS.
 K5072A

2.0 Daily Production
 150 TAILINGS, 4 DEBRIS LOADS

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
<u>2</u>	CAT 345 Excavators	<u>2</u>	Management Personnel
<u>2</u>	D6 Dozers	<u>3</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>0</u>	14H Motor Graders	<u>1</u>	Other: GATE
<u>1</u>	Street Sweeper		
<u>3</u>	Big Gun Sprinklers		Daily Activities Start Time: <u>6:00 AM</u>
<u>1</u>	Other: <u>330 EXCAVATOR</u>		Daily Activities Stop Time: <u>6:00 PM</u>

4.0 Safety Related Topics (meetings, incidents, etc.): OSHA INCIDENTS & PREVENTION

5.0 Incidents affecting Production:

WEATHER CONDITION SUMMARY CLEAR, HOT SOUTH WIND 5-10mph HIGH 107°F	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input checked="" type="checkbox"/>

PROJECT MANAGER: Bob Ainslie ERIK GEHRINGER

SIGNATURE: Erik Gehring DATE: 6/29/10



ENTACT
environmental tactics in waste management

EXTRA WORK TAG

DATE:	6/29/10
DAY:	TUESDAY

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

1. Summary of Construction Locations and Activities
SORT/SEGREGATE DEBRIS - LOAD TRUCKS

2.0 Daily Production
4 LOADS DEBRIS HAULED TO LANDFILL

3.0 Equipment Onsite

<u>Utilized</u>	<u>Description</u>	<u>Daily Start Time</u>	<u>Daily Stop Time</u>
<u>6 HRS</u>	Equipment - 330 Excavator	<u>7:00 AM</u>	<u>1:00 PM</u>
<u>6 "</u>	Materials - Fuel	<u>"</u>	<u>"</u>
<u>6 "</u>	Labor - Operator	<u>"</u>	<u>"</u>
<u> </u>	Equipment - On-road Single Dumps	<u> </u>	<u> </u>
<u> </u>	Other: _____	<u> </u>	<u> </u>

4.0 Additional Information and Notes for Extra Work:

Entact Signature: *Eric [Signature]*

DATE: 6/28/10

Northgate Signature: *James M [Signature]*

DATE: 6/29/10

Field Activity Report



environmental management, inc.

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Page 1 of 2

Date: 6/30/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: 105 - 110°

Site Conditions: Breezy to windy in afternoon

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barron, Patrick Ferringer (drilling)

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>ENTACT</u>	<u>~1100</u>	<u>~1600</u>

CONTRACTORS

Primary Contractor Name: ENTACT

Phone No.: 307-359-1141

Supervisor: Bob Ainslie
Eric Gehringer

Task: Manganese Tailings Removal Task

Company	No. of Supervisors	No. of Workers	Remarks
<u>ENTACT</u>	<u>2</u>	<u>8</u>	

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

See page 2

Field Activity Report



environmental management, inc.

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Page 2 of 2

Date: 6/30/2010

Recorded By: Jim Carolan

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 Dozers,
2 Walk trucks, 1 street sweeper,
1 CAT 330 Excavator

Comments:

No change order work

Waste Transport and Disposal Summary:

Transporter(s):

Assorted

Transporter Equipment:

No. ~30 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:

A estimate of loads transported to Apex Landfill was not provided by ENTACT

General Activities Summary:

- ENTACT effectively controlled dust all day
- ENTACT located the sanitary sewer structure within the manganese tailings. A steel plate had been placed over the structure to replace it. Aside from minor cracking, the structure appears to be in good shape.

Print Name:

Jim Carolan

Signature:



FIELD ACTIVITY DAILY LOG

DATE: 6/30/10
 DAY: WEDNESDAY

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

1.0 Summary of Construction Locations and Activities

LOAD/HAUL MW TAILINGS - SORT DEBRIS.
 CLEAN D6 DOZER - EXCAVATE AROUND COOLING TOWER WALLS
 - LOCATED SANITARY SEWER MANHOLE.

2.0 Daily Production

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
<u>2</u>	CAT 345 Excavators	<u>2</u>	Management Personnel
<u>2</u>	D6 Dozers	<u>3</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>0</u>	14H Motor Graders	<u>1</u>	Other: GATE SECURITY
<u>1</u>	Street Sweeper		
<u>3</u>	Big Gun Sprinklers		Daily Activities Start Time: <u>6:00 AM</u>
<u>1</u>	Other: <u>330 EXCAVATOR</u>		Daily Activities Stop Time: <u>6:00 PM</u>

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

CONTRACTOR (LAS VEGAS PAVING) INCIDENT RESULTING IN DEATH
 - LOADER RAN OVER WORKER.

5.0 Incidents affecting Production:

WEATHER CONDITION SUMMARY CLEAR, HOT HIGH 108°F WIND 5 mph to 15 mph	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input type="checkbox"/>

PROJECT MANAGER: Bob Atinslie ERIK GEHRINGER

SIGNATURE: *Erik Gehring* DATE: 6/30/10

Field Activity Report



environmental management, inc.

300 Frank H. Ogawa Plaza, Suite 510, Oakland, CA 94612
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Page 1 of 2

Date: 7/1/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clew

Temperature: 105 - 110° F

Site Conditions: Breezy to Windy

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barron, Patrick Ferringer (drilling)

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin 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

Erk Gehring

Task: Manganese Tailings Removal Task

Company	No. of Supervisors	No. of Workers	Remarks
<u>ENTACT</u>	<u>2</u>	<u>8</u>	

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

see page 2

Field Activity Report



environmental management, inc.

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Page 2 of 2

Date: 7/1/2010
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 Do Dozers,
2 Water trucks, 1 street sweeper,
1 330 Excavator

Comments: • Water line utility leak along transportation route (4m adjacent to Unit 1). Northgate & ENTACT provided traffic control until protective steel plates were installed over the leak location.
No change order work

Waste Transport and Disposal Summary:

Transporter(s): Assorted
Transporter Equipment: No. ~32 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: • ENTACT transported 168 loads of material to Apex Landfill.

General Activities Summary:

• ENTACT effectively controlled dust all day.

Print Name: Jim Carlson Signature: [Signature]



FIELD ACTIVITY DAILY LOG

DATE: 7/1/10
 DAY: THURSDAY

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

1.0 Summary of Construction Locations and Activities
 EXCAVATE & LOAD TAILINGS - HAUC TO LANDFILL
 - CONTINUE TO CLEAN OUT COOLING TOWER AREA

2.0 Daily Production 168 LOADS TAILINGS

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
2	CAT 345 Excavators	2	Management Personnel
2	D6 Dozers	3	Equipment Operators
2	4,000 Gallon Water Trucks	2	Truck Drivers
1	12,000 Gallon Water Towers	2	Laborers
0	14H Motor Graders	1	Other: GATE SECURITY
1	Street Sweeper		
3	Big Gun Sprinklers		Daily Activities Start Time: 6:00 AM
1	Other: 330 EXCAVATOR		Daily Activities Stop Time: 6:00 PM

4.0 Safety Related Topics (meetings, incidents, etc.): SAFETY TOPIC - 7 MAIN CAUSES FOR ACCIDENTS

5.0 Incidents affecting Production: WATER MAIN BROKE OUTSIDE OF OLIN'S OFFICE, TRAFFIC WAS ROUTED AROUND UNTIL WATER WAS STOPPED & STEEL PLATES WERE PROVIDED BY OTHERS. NORTHGATE & ENTACT PROVIDED TRAFFIC CONTROL.

WEATHER CONDITION SUMMARY CLEAR HOT 109°F HIGH WIND - 10-15 mph w/higher gusts @ TIMES	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input type="checkbox"/>

PROJECT MANAGER: ~~Bob Ainslie~~ ERIK GEHRINGER

SIGNATURE: *Erik Gehring* DATE: 7/1/10

Field Activity Report



environmental management, inc.

300 Frank H. Ogawa Plaza, Suite 510, Oakland, CA 94612
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Page 1 of 2

Date: 7/2/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: 100 - 105°F

Site Conditions: Breezy to Windy

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barron, Patrick Ferrigno (drilling)

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Davin Gordon</u>	<u>NDEP Representative</u>	<u>~6:30</u>	<u>~1630</u>

CONTRACTORS

Primary Contractor Name: ENTACT
 Supervisor: Bob Ainsie
Erik Gehring

Phone No.: 307-359-1141
 Task: Manganese Tailings Removal Task

Company	No. of Supervisors	No. of Workers	Remarks
<u>ENTACT</u>	<u>2</u>	<u>8</u>	

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

See page 2

Field Activity Report



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Page 2 of 2

Date: 7/2/2010
Recorded By: Jim Carlson

Project Name: Manganese Tailings Removal
Client Name: Tronox LLC

Project No.: 2027.08, Task 10

EXCAVATION ACTIVITIES SUMMARY

Excavation Summary:

Excavation Contractor:
Excavation Equipment:

ENTACT
2 CAT 345C Excavators, 2 D6 Dozers,
2 4000-gal water trucks, 2 Street sweepers
1 330 Excavator

Comments:

ENTACT utilized 330 Excavator to sort + handle concrete debris. (i.e. change order)

Waste Transport and Disposal Summary:

Transporter(s):
Transporter Equipment:

Assorted
No. ~ 32 Type: Bottom dumps
No. 1 Type: end dumps
No. Type:

Waste Type/Classification:
Disposal Facility:

Soil/Non-Hazardous Waste, Waste Profile No. 3825104167
Apex Landfill, 13550 North US Highway 93, Las Vegas, Nevada

Comments:

ENTACT transported 1 load of concrete debris to Apex Landfill
ENTACT transported 155 loads of manganese tailings to Apex Landfill.

General Activities Summary:

ENTACT effectively controlled dust all day

Print Name:

Jim Carlson

Signature:



FIELD ACTIVITY DAILY LOG

DATE:	7/2/10
DAY:	FRIDAY

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

1.0 Summary of Construction Locations and Activities SORTED &
- LOADED DEBRIS

EXCAVATE & LOAD TAILINGS - HAUL TO LANDFILL
 - CONTINUE TO CLEAN OUT COOLING TOWER AREA
 - EXCAVATED AROUND MON. WELL ALONG SOUTHERN BOUNDARY (1)

2.0 Daily Production

155 LOADS TAILINGS , 1 LOAD DEBRIS

3.0 Equipment / Personnel Onsite

<u>Quantity</u>	<u>Type</u>	<u>Quantity</u>	<u>Type</u>
2	CAT 345 Excavators	2	Management Personnel
2	D6 Dozers	3	Equipment Operators
2	4,000 Gallon Water Trucks	2	Truck Drivers
1	12,000 Gallon Water Towers	2	Laborers
0	14H Motor Graders	1	Other: GATE SECURITY
1	Street Sweeper		
3	Big Gun Sprinklers		Daily Activities Start Time: 6:00 AM
1	Other: 330 EXCAVATOR		Daily Activities Stop Time: 6:00 PM

4.0 Safety Related Topics (meetings, incidents, etc.): WEEKEND SAFETY, DISCUSSED
 IMPORTANCE OF STAYING FOCUSSED ON THE LAST DAY BEFORE
 HOLIDAY WEEKEND

5.0 Incidents affecting Production:

TRAFFIC ACCIDENT (NON-WORK RELATED) ON I-215 CAUSED HEAVY
 TRAFFIC & DELAYS WHICH AFFECTED TRUCK CYCLE TIMES AND
 TOTAL TRUCK LOAD COUNT.

WEATHER CONDITION SUMMARY HOT & CLEAR 105°F WIND @ 10 to 25 mph SSW	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: <hr/> <hr/> <hr/> <hr/> <hr/>	Extra Work Tag Attached: <div style="text-align: center;"> <input checked="" type="checkbox"/> </div>
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PROJECT MANAGER: Bob Ainslie **ERIK GETRINGER**

SIGNATURE: *Erik Getringer* DATE: 7/2/10



EXTRA WORK TAG

DATE: 7/2/10
DAY: FRIDAY

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

1. Summary of Construction Locations and Activities
SORTED / SEGREGATED DEBRIS FOR LOADOUT ON MONDAY
- LOADED 1 SINGLE END DUMP WITH DEBRIS

2.0 Daily Production
1 LOAD DEBRIS HAULED TO LANDFILL
10+ LOADS READY FOR LOADOUT

3.0 Equipment Onsite

<u>Utilized</u>	<u>Description</u>	<u>Daily Start Time</u>	<u>Daily Stop Time</u>
2 HR	Equipment - 330 Excavator	1:00	3:00
2 HR	Materials - Fuel	↓	↓
2 HR	Labor - Operator	↓	↓
	Equipment - On-road Single Dumps		
	Other: _____		

4.0 Additional Information and Notes for Extra Work:

Entact Signature: *[Signature]* DATE: 7/2/10

Northgate Signature: *[Signature]* DATE: 7/7/2010

Field Activity Report



environmental management, inc.

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Page 1 of 2

Date: 7/5/2010
 Recorded By: Jim Carlson

Project Name: Manganese Tailings Removal Project No.: 2027.08, Task 10
 Client Name: Tronox LLC
 Weather: Clear Temperature: 100 - 105°
 Site Conditions: Breezy to windy

NORTHGATE PERSONNEL ON-SITE

Francisco Barron, Patrick Bringer (drilling)

[HOLIDAY WORK]

VISITORS

Name	Company/Agency	Time Arrived	Time Left

CONTRACTORS

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

Company	No. of Supervisors	No. of Workers	Remarks
<u>ENTACT</u>	<u>2</u>	<u>8</u>	

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

see page 2

Field Activity Report



environmental management, inc.

300 Frank H. Ogawa Plaza, Suite 510, Oakland, CA 94612
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Page 2 of 2

Date: 7/5/2010
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: 2 CAT 345C Excavators, 2 D6 Dozers, 2 Water Trucks, 1 Street Sweeper.

Comments: • ENTACT utilized 330 Excavator to handle and load concrete debris (i.e. change order work)

Waste Transport and Disposal Summary:

Transporter(s): Assorted
Transporter Equipment: No. ~ 25 Type: bottom dump
No. ~ 4 Type: end 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: • ENTACT transported ~ 144 loads of manganese tailings to Apex landfill.
• ENTACT transported 17 loads of concrete debris to Apex landfill.

General Activities Summary:

• ENTACT effectively controlled dust all day.

Print Name: Jim Carolan Signature: James M Carolan



FIELD ACTIVITY DAILY LOG

DATE: 7/5/10
 DAY: MONDAY

PROJECT NAME: Tronox Tailings Removal Project PROJECT NO.: E-7856

LOCATION: Henderson, NV

1.0 Summary of Construction Locations and Activities

EXCAVATE & LOAD TAILINGS - HAUL TO LANDFILL
 - CONTINUE TO CLEAN OUT COOLING TOWER AREA
 - LOAD DEBRIS

2.0 Daily Production

144 LOADS TAILINGS, 17 LOADS OF DEBRIS

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
2	CAT 345 Excavators	2	Management Personnel
2	D6 Dozers	3	Equipment Operators
2	4,000 Gallon Water Trucks	2	Truck Drivers
1	12,000 Gallon Water Towers	2	Laborers
0	14H Motor Graders	1	Other: GATE SECURITY
1	Street Sweeper		
3	Big Gun Sprinklers		Daily Activities Start Time: 6:00 AM
1	Other: 330 EXCAVATOR		Daily Activities Stop Time: 6:00 PM

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

5.0 Incidents affecting Production:

WEATHER CONDITION SUMMARY HOT - HIGH 103°F WIND 10-20 mph CLEAR	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input checked="" type="checkbox"/>

PROJECT MANAGER: Bob Ainslie

SIGNATURE: _____ DATE: _____



EXTRA WORK TAG

DATE: 7/5/10
DAY: ~~THURSDAY~~
MONDAY

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

1. Summary of Construction Locations and Activities
SORTED/SEGREGATED DEBRIS. LOADED SINGLE
END DUMPS WITH DEBRIS

2.0 Daily Production
17 LOADS OF DEBRIS

3.0 Equipment Onsite

<u>Utilized</u>	<u>Description</u>	<u>Daily Start Time</u>	<u>Daily Stop Time</u>
12	Equipment - 330 Excavator	6:00 AM	6:00 PM
12	Materials - Fuel	↓	↓
12	Labor - Operator	↓	↓
	Equipment - On-road Single Dumps		
	Other: _____		

4.0 Additional Information and Notes for Extra Work:

Entact Signature: *Earl Gehring* DATE: 7/5/10
Northgate Signature: *Jim M. ...* DATE: 7/7/10

Field Activity Report



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Page 4 of 2

Date: 7/6/2010
 Recorded By: Jim Cardon

Project Name: Manganese Tailings Removal Project No.: 2027.08, Task 10
 Client Name: Tronox LLC
 Weather: clear Temperature: 100-105°
 Site Conditions: Breezy

NORTHGATE PERSONNEL ON-SITE

Francisco Barron, Patrick Ferringer (drilling)

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin 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
Erik Gehring

Company	No. of Supervisors	No. of Workers	Remarks
<u>ENTACT</u>	<u>2</u>	<u>8</u>	

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

see page 2

Field Activity Report



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Date: 7/6/2010
Recorded By: Jim Carlson

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: 2 CAT 345C Excavators, 2 Dozers,
2 Walk trucks, 1 sheet sweeper,
1 CAT 330 Excavator.

Comments: No change order work.

Waste Transport and Disposal Summary:

Transporter(s): Assorted
Transporter Equipment: No. ~28 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: ENTACT transported 161 loads of manganese tailings to Apex landfill.

General Activities Summary:

- ENTACT effectively controlled dust all day
- ENTACT knicked active process line (2" HDPE).
- ENTACT coordinated with Northgate & Tronox to facilitate repair.

Print Name: Jim Carlson Signature: [Signature]



FIELD ACTIVITY DAILY LOG

DATE: 7/6/10
DAY: TUESDAY

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

1.0 Summary of Construction Locations and Activities
EXCAVATE & LOAD TAILINGS - HAUL TO LANDFILL
- CONTINUE TO CLEAN OUT COOLING TOWER AREA
- SORT/SEGREGATE DEBRIS

2.0 Daily Production 161
~~161~~ LOADS TAILINGS

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
<u>2</u>	CAT 345 Excavators	<u>2</u>	Management Personnel
<u>2</u>	D6 Dozers	<u>3</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>0</u>	14H Motor Graders	<u>1</u>	Other: GATE SECURITY
<u>1</u>	Street Sweeper		
<u>3</u>	Big Gun Sprinklers		Daily Activities Start Time: <u>6:00 AM</u>
<u>1</u>	Other: <u>330 EXCAVATOR</u>		Daily Activities Stop Time: <u>6:00 PM</u>

4.0 Safety Related Topics (meetings, incidents, etc.):
SAFETY TOPIC - DISCUSSED OFF-PROJECT INCIDENT - WATER PULL HITTING A PERSONAL VEHICLE

5.0 Incidents affecting Production:

<p>WEATHER CONDITION SUMMARY HOT SUNNY ≈ 105°F</p>	<p>CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: ON MONDAY, AN EXCAVATOR HIT PROCESS LINE CAUSING SMALL HOLE IN TOP OF LINE. DISCUSSED WITH ROBERT PLAN OF ATTACK. EXCAVATED AROUND LINE TO EXPOSE & TRONOX PERFORMED REPAIR</p>	<p>Extra Work Tag Attached:</p> <div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;"></div>
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PROJECT MANAGER: Bob Ainslie ERIC GEHRINGER

SIGNATURE: DATE: 7/6/10

Field Activity Report



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Date: 7/7/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: clear

Temperature: 100 - 105 °F

Site Conditions: Breezy to calm

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barron, Patrick Ferringer (drilling)

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>NDEP Representative</u>	<u>~6:30</u>	<u>~1830</u>

CONTRACTORS

Primary Contractor Name: ENTACT

Phone No.: 307-359-1141

Supervisor: Bob Ainsie
Erik Gehringer

Task: Manganese Tailings Removal Task

Company	No. of Supervisors	No. of Workers	Remarks
<u>ENTACT</u>	<u>2</u>	<u>8</u>	

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

see page 2

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Page 2 of 2

Date: 7/7/2010
Recorded By: Jim Carolan

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 345 Excavators, 2 D6 Dozers, 2 4,000-gal water tanks, 1 Street Sweeper.

Comments: ENTACT utilizes CAT 330 Excavator to handle and load concrete debris (i.e. change order)

Waste Transport and Disposal Summary:

Transporter(s): Assorted
Transporter Equipment:

No.	<u>~ 25</u>	Type:	<u>Bottom dump</u>
No.	<u>~ 4</u>	Type:	<u>End dumps</u>
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 transported 127 loads of manganese tailings to Apex Landfill
- ENTACT transported 20 loads of debris to Apex Landfill

General Activities Summary:

- ENTACT effectively controlled dust all day
- ENTACT cut into an abandoned 30" VCP recirculation line on 7/6/2010 @ 0940. Water still leaking at a rate of @ 5 gpm. into manganese tailings work area. ENTACT advances trench to convey water into Gimer cooling tower foundation. Northgate works with Tronox to have 30" VCP line plugged to stop leak. NDEP expresses concern about the nature, origin, and handling of water. Tronox evaluates the problem but does not initiate a repair /and or plug the pipe on 7/7/2010

Print Name: Jim Carolan Signature: James M Carolan



FIELD ACTIVITY DAILY LOG

DATE:	7/7/10
DAY:	WEDNESDAY

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

1.0 Summary of Construction Locations and Activities
EXCAVATE & LOAD TAILINGS - HAUL TO LANDFILL
- CONTINUE TO CLEAN OUT COOLING TOWER AREA
- SORT / SEGREGATE DEBRIS

2.0 Daily Production
127 LOADS TAILINGS, 20 LOADS DEBRIS

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>3</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>0</u>	14H Motor Graders	<u>1</u>	Other: <u>GATE SECURITY</u>
<u>1</u>	Street Sweeper		
<u>3</u>	Big Gun Sprinklers		Daily Activities Start Time: <u>6:00 AM</u>
<u>1</u>	Other: <u>330 EXCAVATOR</u>		Daily Activities Stop Time: <u>6:00 PM</u>

4.0 Safety Related Topics (meetings, incidents, etc.):
SAFETY TOPIC - SERIOUSNESS OF TAKING SAFETY SERIOUSLY

5.0 Incidents affecting Production: DURING EXCAVATION, WATER STARTED SEEPING UP FROM THE GROUND. A STEADY STREAM RAN ALL DAY. (APPROX 5-10 PM)

WEATHER CONDITION SUMMARY <u>HOT, SUNNY</u> <u>105°F</u>	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: <u>EXCAVATED TRENCH TO CARRY SEEPING WATER AWAY FROM TAILINGS TO FACILITATE THE EXCAVATION OF THE NEXT CUT.</u>	Extra Work Tag Attached: <div style="text-align: center;"> </div>
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PROJECT MANAGER: Bob Ainslie <u>ERIK GEHRINGER</u>	
SIGNATURE: <u>Erik Gehring</u>	DATE: <u>7/7/10</u>



EXTRA WORK TAG

DATE: 7/7/10
 DAY: WEDNESDAY

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

1. Summary of Construction Locations and Activities

SORT / SEGREGATE DEBRIS

2.0 Daily Production

20 LOADS OF DEBRIS HAULED TO LANDFILL

3.0 Equipment Onsite

<u>Utilized</u>	<u>Description</u>	<u>Daily Start Time</u>	<u>Daily Stop Time</u>
12 HRS	Equipment - 330 Excavator	6:00 AM	6:00 PM
12 HRS	Materials - Fuel	↓	↓
12 HRS	Labor - Operator	↓	↓
_____	Equipment - On-road Single Dumps	_____	_____
_____	Other: _____	_____	_____

4.0 Additional Information and Notes for Extra Work:

Entact Signature: *[Signature]*

DATE: 7/7/10

Northgate Signature: *[Signature]*

DATE: 7/8/10

Field Activity Report



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Page 1 of 2

Date: 7/6/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: 105-110° F

Site Conditions: Breezy

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barron, Patrick Ferringer (drilling)

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	ENTACT <u>NDP Representative</u>	<u>~7:00</u>	<u>~17:00</u>

CONTRACTORS

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

Company	No. of Supervisors	No. of Workers	Remarks
<u>ENTACT</u>	<u>2</u>	<u>8</u>	

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

see page 2

Field Activity Report



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Date: 7/8/2010
Recorded By: Jim Carlson

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: 2 CAT 345C Excavators, 2 Dozers, 2 water trucks, 1 street sweeper

Comments: CAT 330 Excavator utilized to handle and load concrete debris (i.e. change order)

Waste Transport and Disposal Summary:

Transporter(s): Assorted
Transporter Equipment:

No. <u>~30</u>	Type: <u>Boltan dump</u>
No. <u>~2</u>	Type: <u>End dump</u>
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

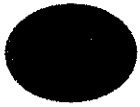
Comments:

- ENTACT transported 136 loads of manganese tailings to Apex Landfill
- ENTACT transported 17 loads of concrete debris to Apex landfill.

General Activities Summary:

- ENTACT effectively controlled dust all day
- Tronox personnel continued to evaluate methods to plug leaking 30" VCP recirculation line.

Print Name: Jim Carlson Signature: James M Carlson



ENTACT
environmental tactics in waste management

EXTRA WORK TAG

DATE:	7/8/10
DAY:	THURSDAY

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

1. Summary of Construction Locations and Activities
EXCAVATE & LOAD DEBRIS

2.0 Daily Production
17 LOADS OF DEBRIS

3.0 Equipment Onsite

<u>Utilized</u>	<u>Description</u>	<u>Daily Start Time</u>	<u>Daily Stop Time</u>
<u>12</u>	Equipment - 330 Excavator	<u>6:00 AM</u>	<u>6:00 PM</u>
<u>12</u>	Materials - Fuel	<u>↓</u>	<u>↓</u>
<u>12</u>	Labor - Operator	<u>↓</u>	<u>↓</u>
<u> </u>	Equipment - On-road Single Dumps	<u> </u>	<u> </u>
<u> </u>	Other: <u> </u>	<u> </u>	<u> </u>

4.0 Additional Information and Notes for Extra Work:

Entact Signature: *Erik Gehyji* DATE: 7/8/10

Northgate Signature: *Jan M. A.* DATE: 7/9/10



FIELD ACTIVITY DAILY LOG

DATE:	7/8/10
DAY:	THURSDAY

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

1.0 Summary of Construction Locations and Activities

EXCAVATE & LOAD TAILINGS - HAUL TO LANDFILL
 - EXCAVATE DEBRIS & LOAD - HAUL TO LANDFILL
 - CONSTRUCT ROAD AROUND SEEPING WATER

2.0 Daily Production

136 LOADS TAILINGS, 17 LOADS DEBRIS

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
2	CAT 345 Excavators	2	Management Personnel
2	D6 Dozers	3	Equipment Operators
2	4,000 Gallon Water Trucks	2	Truck Drivers
1	12,000 Gallon Water Towers	2	Laborers
0	14H Motor Graders	1	Other:
1	Street Sweeper		
3	Big Gun Sprinklers		
1	Other: 330 EXCAVATOR		

Daily Activities Start Time: 6:00 AM
 Daily Activities Stop Time: 6:00 PM

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

SAFETY TOPIC - COMMUNICATION & TEAMWORK

5.0 Incidents affecting Production:

<p>WEATHER CONDITION SUMMARY</p> <p style="font-size: 1.2em;">HOT 107°F MOSTLY SUNNY</p>	<p>CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:</p> <p style="text-align: center;">EXCAVATED A TRENCH TO ALLOW WATER TO DRAIN FROM DISCOVERED PIPE INTO COOLING TOWER SO TRONOX COULD GET INTO UPSTREAM MANHOLE</p>	<p>Extra Work Tag Attached:</p> <div style="text-align: center; border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;"> </div>
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PROJECT MANAGER: Bob Ainslie ERIK GEHRINGER

SIGNATURE: _____ DATE: 7/8/10

Field Activity Report



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Page 1 of 2

Date: 7/9/2010
Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal Project No.: 2027.08, Task 10
Client Name: Tronox LLC
Weather: Clear Temperature: 105-115° F
Site Conditions: Breezy

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barron, Patrick Ferringer (Utility)

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Dawn Gordon</u>	<u>NDEP Representative</u>	<u>~9:00</u>	<u>~1:00</u>

CONTRACTORS

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

Company	No. of Supervisors	No. of Workers	Remarks
<u>ENTACT</u>	<u>2</u>	<u>8</u>	

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

see page 2

Field Activity Report



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Date: 7/9/2010
Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal
Client Name: Tronox LLC

Project No.: 2027.08, Task 10

EXCAVATION ACTIVITIES SUMMARY

Excavation Summary:

Excavation Contractor:
Excavation Equipment:

ENTACT
2 CAT 345C Excavators, 2 DG Dozers,
2 Water trucks, 1 street sweeper,
1 330 Excavator

Comments:

No change order work

Waste Transport and Disposal Summary:

Transporter(s):
Transporter Equipment:

Assorted
No. ~30 Type: Bottom dump
No. Type:
No. Type:

Waste Type/Classification:
Disposal Facility:

Soil/Non-Hazardous Waste, Waste Profile No. 3825104167
Apex Landfill, 13550 North US Highway 93, Las Vegas, Nevada

Comments:

ENTACT transported 172 loads of tailings to Apex Landfill

General Activities Summary:

- ENTACT effectively controlled dust all day
- Tronox repaired / (i.e. plugged) 30" VCP recirculation line that had been draining at rate of ~5 gpm into concrete foundation of former cooling tower within the former manganese tailing pile. Reportedly, Tronox used an inflatable plug at an upstream location of former manganese tailings pile.

Print Name:

Jim Carolan

Signature:



FIELD ACTIVITY DAILY LOG

DATE: 7/9/10
 DAY: FRIDAY

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

1.0 Summary of Construction Locations and Activities
 - EXCAVATE & LOAD TAILINGS
 - CONTINUED PULLING SLOPE ON SOUTH SIDE

2.0 Daily Production ~~172~~ 172 LOADS TAILINGS

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
<u>2</u>	CAT 345 Excavators	<u>2</u>	Management Personnel
<u>2</u>	D6 Dozers	<u>3</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>0</u>	14H Motor Graders	<u>1</u>	Other:
<u>1</u>	Street Sweeper		
<u>3</u>	Big Gun Sprinklers		Daily Activities Start Time: <u>6:00 AM</u>
<u>1</u>	Other: <u>330 EXCAVATOR</u>		Daily Activities Stop Time: <u>6:00 PM</u>

4.0 Safety Related Topics (meetings, incidents, etc.):
 SAFETY TOPIC - END OF PROJECT SAFETY AWARENESS

5.0 Incidents affecting Production:

WEATHER CONDITION SUMMARY HOT 107°F + SUNNY to PARTLY CLOUDY	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input type="checkbox"/>

PROJECT MANAGER: Bob Ainslie ERIK GEHRINGER

SIGNATURE: *Erik Gehring* DATE: 7/9/10

Field Activity Report



environmental management, inc.

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Page 1 of 2

Date: 7/10/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Partly cloudy / mostly sunny

Temperature: 105 - 110 plus °F

Site Conditions: Breezy

NORTHGATE PERSONNEL ON-SITE

Jim Carolan

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>NREP Representative</u>	<u>~1500</u>	<u>~1600</u>

CONTRACTORS

Primary Contractor Name: ENTACT

Phone No.: 307-359-1141

Supervisor: Bob Ainslie
Erik Gehringer

Task: Manganese Tailings Removal Task

Company	No. of Supervisors	No. of Workers	Remarks
<u>ENTACT</u>	<u>2</u>	<u>8</u>	

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

see page 2

Field Activity Report



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Page 2 of 2

Date: 7/10/2010

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:

2 CAT 345 Excavators 2 D6 Dozers,
2 wheel trucks, 1 street sweeper,
1 330 Excavator

Comments:

No change order work

Waste Transport and Disposal Summary:

Transporter(s):

Assorted

Transporter Equipment:

No. ~30 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:

• ENTACT transported 164 loads of manganese tailings to Apex landfill.

General Activities Summary:

- ENTACT effectively controlled dust all day.
- ENTACT sloped the southern boundary of the former manganese tailings pile at a 1.5:1

Print Name:

Jim Carolan

Signature:



FIELD ACTIVITY DAILY LOG

DATE:	7/10/10
DAY:	SATURDAY

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

1.0 Summary of Construction Locations and Activities

EXCAVATE & LOAD TAILINGS

~~15~~ 164 LOADS TAILINGS

2.0 Daily Production

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
2	CAT 345 Excavators	2	Management Personnel
2	D6 Dozers	3	Equipment Operators
2	4,000 Gallon Water Trucks	2	Truck Drivers
1	12,000 Gallon Water Towers	2	Laborers
0	14H Motor Graders	1	Other:
1	Street Sweeper		
3	Big Gun Sprinklers		
1	Other: <u>330 EXCAVATOR</u>		

Daily Activities Start Time: 6:00 AM

Daily Activities Stop Time: 6:00 PM

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

SAFETY TOPIC - TRUCK SAFETY (TRUCK DRIVERS MUST BE WATCHED & EXPECT THE UNEXPECTED WHEN AROUND THEM)

5.0 Incidents affecting Production:

<p>WEATHER CONDITION SUMMARY</p> <p style="font-size: 1.2em;">HOT & MOSTLY SUNNY</p> <p style="font-size: 1.2em;">HIGH 108°F*</p>	<p>CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:</p> <p>LET</p>	<p>Extra Work Tag Attached:</p> <div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;"></div>
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PROJECT MANAGER: Bob Ainslie **ERIK GETHRINGER**

SIGNATURE: *Erik Gethringer* DATE: 7/10/10

Field Activity Report



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Page 1 of 2

Date: 7/12/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: 105-110° F

Site Conditions: Breezy to windy

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barron, Patrick Ferringer (drilling)

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Dawn Gordon</u>	<u>WRPD Representative</u>	<u>~07:00</u>	<u>~17:00</u>

CONTRACTORS

Primary Contractor Name: ENTACT

Phone No.: 307-359-1141

Supervisor: ~~Bob Ainslie~~
Greg Nichols

Task: Manganese Tailings Removal Task

Company	No. of Supervisors	No. of Workers	Remarks
<u>ENTACT</u>	<u>2</u>	<u>8</u>	

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

see page 2

NO WORK TODAY. WATER LINE REPAIR NOT COMPLETED ON 5th Avenue/Street. ENTACT declined to use approved alternate route citing additional demurrage charges while new access route was mobilized.

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 2 of 2

Date: 7/12/2010
Recorded By: Jim Carolan

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 345 Excavators, 2 Do D0745, 2 Water Trucks,

Comments: No work completed on 7/12/2010

Waste Transport and Disposal Summary:

Transporter(s):
Transporter Equipment:
Waste Type/Classification:
Disposal Facility:

No.	Type:
No.	Type:
No.	Type:
Soil/Non-Hazardous Waste, Waste Profile No. 3825104167	
Apex Landfill, 13550 North US Highway 93, Las Vegas, Nevada	

Comments: No material transported.

General Activities Summary:

• Northgate preps alternate route for use on 7/13/2010.

Print Name: Jim Carolan Signature: Jim M Carolan



FIELD ACTIVITY
DAILY LOG

DATE 7/12/10
DAY MONDAY

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

1.0 Summary of Construction Locations and Activities
ARRIVED ONSITE TO FIND WATER LINE REPAIR NOT COMPLETE. ACCESS WAS HINDERED SO TRUCKS WERE SENT AWAY TO AVOID ADDITIONAL DEMURRAGE CHARGES WHILE NEW ACCESS ROUTE WAS PUT INTO PLACE.

2.0 Daily Production
NO MATERIAL HAULED TODAY

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
2	CAT 345 Excavators	2	Management Personnel
2	D6 Dozers	3	Equipment Operators
2	4,000 Gallon Water Trucks	2	Truck Drivers
1	12,000 Gallon Water Towers	2	Laborers
0	14H Motor Graders	1	Other: GATE
0	Street Sweeper		
3	Big Gun Sprinklers		Daily Activities Start Time: 8:00 AM
1	Other 330 EXCAVATOR		Daily Activities Stop Time: 6:00 PM

4.0 Safety Related Topics (meetings, incidents, etc.)
SAFETY TOPIC - TARP INSPECTIONS & KEEPING ROAD CLEAN

5.0 Incidents affecting Production
WATER LINE REPAIR EFFORT

WEATHER CONDITION SUMMARY HOT, SUNNY 108°F +	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input type="checkbox"/> NO

PROJECT MANAGER ~~at site~~ ERIK GEHRINGER
SIGNATURE Erik Gehring DATE 7/13/10

Field Activity Report



environmental management, inc.

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Page 2 of 2

Date: 7/13/2010

Recorded By: Jim Carolan

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 Db Dozers,
2 Walk trucks,

Comments:

330 Excavator used to handle and load
concrete debris

Waste Transport and Disposal Summary:

Transporter(s):

Assorted

Transporter Equipment:

No. ~30 Type: Bolham dumps

No. ~5 Type: end 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 transported 118 loads of manganese tailings to Apex Landfill
- ENTACT transported 22 loads of concrete debris to Apex Landfill

General Activities Summary:

- ENTACT effectively transported controlled dust all day
- ENTACT utilized alternate route around Unit 1 as approved by Tronox. Northgate personnel provided security at gates 2 & 3. Alternate route designed to route trucks around water line repair on GM Street.

Print Name: Jim Carolan

Signature:

Field Activity Report



environmental management, inc.

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Page 4 of 2

Date: 7/13/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: 105 to 110° F

Site Conditions: Breezy to Windy

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barson, Patrick Ferringer

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>NDEP Representative</u>	<u>0700</u>	<u>~1700</u>

CONTRACTORS

Primary Contractor Name: ENTACT Phone No.: 307-359-1141

Supervisor: Bob Ainslie Task: Manganese Tailings Removal Task
Greg Nichols

Company	No. of Supervisors	No. of Workers	Remarks
<u>ENTACT</u>	<u>2</u>	<u>8</u>	

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

see page 2



FIELD ACTIVITY
DAILY LOG

DATE: 7/13/10
DAY: TUESDAY

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

1.0 Summary of Construction Locations and Activities
EXCAVATION & LOADING OF TAILINGS TRANSPORTATION
OF TAILINGS TO THE LANDFILL
HAULING OF DEBRIS

2.0 Daily Production
118 LOADS TAILINGS, 22 LOADS OF DEBRIS

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
2	CAT 345 Excavators	2	Management Personnel
1	D6 Dozers	3	Equipment Operators
2	4,000 Gallon Water Trucks	2	Truck Drivers
1	12,000 Gallon Water Towers	2	Laborers
0	14H Motor Graders	1	Other: GATE
0	Street Sweeper		
3	Big Gun Sprinklers		Daily Activities Start Time: 8:00 AM
1	Other: 330 EXCAVATOR		Daily Activities Stop Time: 6:00 PM

4.0 Safety Related Topics (meetings, incidents, etc.)
SAFETY TOPIC - HEAT STRESS

5.0 Incidents affecting Production:

WEATHER CONDITION SUMMARY HOT, SUNNY 109°F +	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS	Extra Work Tag Attached: <input checked="" type="checkbox"/>

PROJECT MANAGER: See Austin ERIK GETRINGER
SIGNATURE: [Signature] DATE: 7/14/10



EXTRA WORK TAG

DATE 7/13/10
DAY TUESDAY

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

1. Summary of Construction Locations and Activities
EXCAVATION & LOADING OF DEBRIS

2.0 Daily Production
22 LOADS DEBRIS

3.0 Equipment Onsite

Utilized	Description	Daily Start Time	Daily Stop Time
10 HRS	Equipment - 330 Excavator	8:00 AM	6:00 PM
10 HRS	Materials - Fuel	↓	↓
10 HRS	Labor - Operator	↓	↓
	Equipment - On-road Single Dumps		
	Other		

4.0 Additional Information and Notes for Extra Work:

Entact Signature: *[Signature]* DATE: 7/14/10

Northgate Signature: *[Signature]* DATE: 7/14/10

Field Activity Report



environmental management, inc.

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Page 4 of 2

Date: 7/14/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal

Project No.: 2027.08, Task 10

Client Name: Tronox LLC

Weather: Clear

Temperature: ~ 110°

Site Conditions: Brezy

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barron, Patrick Ferringer (drilling)
Darren Qualls (flagman)

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>NDEP Representatives</u>	<u>~ 7:00</u>	<u>~ 1700</u>

CONTRACTORS

Primary Contractor Name: ENTACT

Phone No.: 307-359-1141

Supervisor: Bob Ainslie
Greg Wicks

Task: Manganese Tailings Removal Task

Company	No. of Supervisors	No. of Workers	Remarks
<u>ENTACT</u>	<u>2</u>	<u>8</u>	

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

See page 2

Field Activity Report



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Page 2 of 2

Date: 7/14/2010
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, 1 Db Dozer, 2 Water Trucks,

Comments: ENTACT utilized 330 Excavator to handle concrete debris in previously unidentified concrete foundation on south side of former cooling tower. (ie. change order work)

Waste Transport and Disposal Summary:

Transporter(s):	<u>Assorted</u>	<u>Bottom</u>
Transporter Equipment:	No. <u>~ 30</u>	Type: <u>Env dump.</u>
	No.	Type:
Waste Type/Classification:	<u>Soil/Non-Hazardous Waste, Waste Profile No. 3825104167</u>	
Disposal Facility:	<u>Apex Landfill, 13550 North US Highway 93, Las Vegas, Nevada</u>	

Comments: ENTACT transported 116 loads of manganese tailings to Apex Landfill

General Activities Summary:

- ENTACT effectively controlled dust all day
- ENTACT utilized alternate route around Unit 1 the entire day
- ENTACT worked on minor finish surface grading all day (i.e. smooth out excavation edges).
- ENTACT swept 4th & 5th Street with street sweeper at end of day
- Northgate provided security for Tronox Cabs 2 + 3 (i.e. alternate route) all day

Print Name: Jim Carlson Signature: James M Carlson



FIELD ACTIVITY DAILY LOG

DATE: 7/14/10
 DAY: WEDNESDAY

PROJECT NAME: Tronox Tailings Removal Project
 LOCATION: Henderson, NV

PROJECT NO.: E-7856

1.0 Summary of Construction Locations and Activities

- EXCAVATE & LOAD TAILINGS
- GRADED SOUTH SLOPE
- HAND EXCAVATED IN SUMP (COOLING TOWER AREA)

2.0 Daily Production

116 LOADS TAILINGS

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
2	CAT 345 Excavators	2	Management Personnel
1	D6 Dozers	3	Equipment Operators
2	4,000 Gallon Water Trucks	2	Truck Drivers
1	12,000 Gallon Water Towers	2	Laborers
0	14H Motor Graders	1	Other: GATE SECURITY
1	Street Sweeper		
3	Big Gun Sprinklers		
1	Other: 330 EXCAVATOR		

Daily Activities Start Time: 6:00 AM
 Daily Activities Stop Time: 7:00 PM

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

SAFETY TOPIC - HEAT, DRINKING FLUIDS

5.0 Incidents affecting Production:

WEATHER CONDITION SUMMARY HOT 109°F + SUNNY	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input checked="" type="checkbox"/>

PROJECT MANAGER: Bob Ainslie ERIC GEHRINGER

SIGNATURE: [Signature] DATE: 7/16/10



ENTACT
ENVIRONMENTAL NOTICE TO SERVICE MANAGEMENT

EXTRA WORK TAG

DATE:

7/14/10

DAY:

WEDNESDAY

PROJECT NAME: Tronox Tailings Removal Project

PROJECT NO.: E-7856

LOCATION: Henderson, NV

1. Summary of Construction Locations and Activities

SORT / SEGREGATE DEBRIS

2.0 Daily Production

3.0 Equipment Onsite

<u>Utilized</u>	<u>Description</u>	<u>Daily Start Time</u>	<u>Daily Stop Time</u>
<u>12</u>	Equipment - 330 Excavator	<u>6:00AM</u>	<u>6:00PM</u>
<u>12</u>	Materials - Fuel	<u>↓</u>	<u>↓</u>
<u>12</u>	Labor - Operator	<u>↓</u>	<u>↓</u>
<u> </u>	Equipment - On-road Single Dumps	<u> </u>	<u> </u>
<u> </u>	Other: <u> </u>	<u> </u>	<u> </u>

4.0 Additional Information and Notes for Extra Work:

Entact Signature:

Eric Gehrig

DATE:

7/16/10

Northgate Signature:

James M. Case

DATE:

7/16/10

Field Activity Report



environmental management, inc.

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Page 1 of 2

Date: 7/15/2010
 Recorded By: Jim Gordon

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

Client Name: Tronox LLC

Weather: Clear Temperature: 115 to 120°

Site Conditions: Breezy to calm

NORTHGATE PERSONNEL ON-SITE

Jim Gordon, Francisco Barron, Patrick Ferringer (drilling)
Darren Qualls (flagman)

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Devin Gordon</u>	<u>RIPEP Representative</u>	<u>~ 1400</u>	<u>~ 1700</u>

CONTRACTORS

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

Company	No. of Supervisors	No. of Workers	Remarks
<u>ENTACT</u>	<u>2</u>	<u>8</u>	

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

see page 2

Field Activity Report



environmental management, inc.

300 Frank H. Ogawa Plaza, Suite 510, Oakland, CA 94612
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Page 2 of 2

Date: 7/15/2010
Recorded By: Jim Carlson

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: 2 CAT 330C Excavators, 1 Do Dozer, 2 Wheel Traks

Comments: CAT 330 Excavator utilized to handle and load concrete debris from concrete foundation on south side of cooling tower (i.e. change order).

Waste Transport and Disposal Summary:

Transporter(s): Assorted
Transporter Equipment: No. ~30 Type: End 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: • ENTACT transported 73 loads of manganese tailings to Apex Landfill
• ENTACT transported 73 loads of concrete debris to Apex Landfill

General Activities Summary:

- ENTACT effectively controlled dust all day.
- ENTACT utilized the alternate route until 1100 am, when Jim completed paving the repaired section of road
- Northgate provided security at Tronox Cokes 2 & 3 until alternate route was taken out of service at 1100.

Print Name: Jim Carlson Signature: James M Carlson



ENTACT
Environmental Controls for Construction Management

EXTRA WORK TAG

DATE: 7/15/10
DAY: THURSDAY

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

1. Summary of Construction Locations and Activities

LOAD DEBRIS - SEND TO LANDFILL
SORT/SEGREGATE DEBRIS FROM COOLING TOWER

2.0 Daily Production

73 LOADS DEBRIS

3.0 Equipment Onsite

<u>Utilized</u>	<u>Description</u>	<u>Daily Start Time</u>	<u>Daily Stop Time</u>
12	Equipment - 330 Excavator	6:00AM	6:00PM
12	Materials - Fuel	↓	↓
12	Labor - Operator	↓	↓
	Equipment - On-road Single Dumps		
	Other: _____		

4.0 Additional Information and Notes for Extra Work:

Entact Signature:

DATE:

7/16/10

Northgate Signature:

DATE:

7/16/10



FIELD ACTIVITY DAILY LOG

DATE: 7/15/10
 DAY: THURSDAY

PROJECT NAME: Tronox Tailings Removal Project
 LOCATION: Henderson, NV

PROJECT NO.: E-7856

1.0 Summary of Construction Locations and Activities
 EXCAVATE & LOAD DEBRIS FROM COOLING TOWER AND DAILINERS

2.0 Daily Production
 73 LOADS TAILINGS, 73 LOADS DEBRIS

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
2	CAT 345 Excavators	2	Management Personnel
1	D6 Dozers	3	Equipment Operators
2	4,000 Gallon Water Trucks	2	Truck Drivers
1	12,000 Gallon Water Towers	2	Laborers
0	14H Motor Graders	1	Other:
1	Street Sweeper		
3	Big Gun Sprinklers		
1	Other: 330 EXCAVATOR		

Daily Activities Start Time: 6:00 AM
 Daily Activities Stop Time: 6:00 PM

4.0 Safety Related Topics (meetings, incidents, etc.):
 SAFETY TOPIC - HEAT, TRUCKING SAFETY

5.0 Incidents affecting Production:

WEATHER CONDITION SUMMARY HOT 110°F + SUNNY	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input checked="" type="checkbox"/>

PROJECT MANAGER: ~~Bob Ainslie~~ ERIK GEHRINGER
 SIGNATURE: *Erik Gehring* DATE: 7/16/10

Field Activity Report



environmental management, inc.

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Page 1 of 2

Date: 7/10/2010
 Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal Project No.: 2027.08, Task 10
 Client Name: Tronox LLC
 Weather: Clear Temperature: 110-115° F
 Site Conditions: Breezy

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barron, Patrick Ferringer (drilling)

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>Dawn Gordon</u>	<u>NDEP Representative</u>	<u>~7:00</u>	<u>~1700</u>

CONTRACTORS

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

Company	No. of Supervisors	No. of Workers	Remarks
<u>ENTACT</u>	<u>2</u>	<u>8</u>	

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

see page 2

Field Activity Report



environmental management, inc.

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Page 2 of 2

Date: 7/16/2010

Recorded By: Jim Carlson

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:

2 CAT 345C Excavators, 1 D6 Dozer,
2 Water trucks, 1 330 Excavator

Comments:

- No change order work
- ENTACT laborers used shovels to hand dig out most soil/manganese tailings from columns within former cooling tower foundation. NDEP representative, Devin Gordon, advised that work should stop due to health & safety concerns regarding work in excessive heat. Northgate complied.

Waste Transport and Disposal Summary:

Transporter(s):

Assorted

Transporter Equipment:

No. ~ 10 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:

- ENTACT transported 43 loads of manganese tailings to Apex Landfill.

General Activities Summary:

- NDEP representative was satisfied with removal of manganese tailings and did not request any additional manganese tailings removal.
- NDEP deadline for manganese tailings was met.

Print Name: Jim Carlson

Signature:



FIELD ACTIVITY DAILY LOG

DATE: 7/16/10
 DAY: FRIDAY

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

1.0 Summary of Construction Locations and Activities

- EXCAVATE & LOAD TAILINGS & DEBRIS
- CONTINUE COOLING TOWER CLEANOUT
- DECONTAMINATE EQUIPMENT

2.0 Daily Production

43 LOADS TAILINGS

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
2	CAT 345 Excavators	2	Management Personnel
1	D6 Dozers	3	Equipment Operators
2	4,000 Gallon Water Trucks	2	Truck Drivers
1	12,000 Gallon Water Towers	2	Laborers
0	14H Motor Graders	1	Other: GATE SECURITY
1	Street Sweeper (1st)		
3	Big Gun Sprinklers		Daily Activities Start Time: 6:00 AM
1	Other: 330 EXCAVATOR		Daily Activities Stop Time: _____

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

SAFETY TOPIC - HEAT (HEAVY), DRINKING FLUIDS, TRAFFIC PATTERNS (TRUCKS)

5.0 Incidents affecting Production:

WEATHER CONDITION SUMMARY HOT SUNNY 110+ °F	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input type="checkbox"/>
	NORTHGATE ALLOWED THE HAND EXCAVATION IN THE SWAMP TO STOP	
	DUE TO NDEP OVERSIGHT'S RECOMMENDATIONS	

PROJECT MANAGER: Bob Amstutz **ERIK GETZINGER**

SIGNATURE: *Erik Getzinger* DATE: 7/20/10

Field Activity Report



environmental management, inc.

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Page 1 of 2

Date: 7/17/2010
 Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal Project No.: 2027.08, Task 10
 Client Name: Tronox LLC
 Weather: Clear Temperature: 110-115° F
 Site Conditions: Breezy to calm

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisca Barron

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>None</u>			

CONTRACTORS

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

Company	No. of Supervisors	No. of Workers	Remarks
<u>ENTACT</u>	<u>4</u>	<u>4</u>	

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

see page 2

Field Activity Report



environmental management, inc.

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Page 2 of 2

Date: 7/17/2010
Recorded By: Jim Carlson

Project Name: Manganese Tailings Removal
Client Name: Tronox LLC

Project No.: 2027.08, Task 10

EXCAVATION ACTIVITIES SUMMARY

Excavation Summary:

Excavation Contractor:
Excavation Equipment:

ENTACT

Comments:

ENTACT spent day decontaminating and cleaning the excavators, dozer, & water truck

Waste Transport and Disposal Summary:

Transporter(s):
Transporter Equipment:

NA

No. Type:
No. Type:
No. Type:

Waste Type/Classification:
Disposal Facility:

Soil/Non-Hazardous Waste, Waste Profile No. 3825104167
Apex Landfill, 13550 North US Highway 93, Las Vegas, Nevada

Comments:

General Activities Summary:

Northgate performed miscellaneous clean up tasks (i.e. remove garbage/material/etc) from around former manganese tailings pile.

Print Name: Jim Carlson

Signature:



FIELD ACTIVITY DAILY LOG

DATE:	7/17/10
DAY:	SATURDAY

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

1.0 Summary of Construction Locations and Activities
PERFORMED DEMOBILIZATION ACTIVITIES INCLUDING SITE CLEANUP & CLEANING OF EQUIPMENT

2.0 Daily Production

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
<u>2</u>	CAT 345 Excavators	<u>1</u>	Management Personnel
<u>1</u>	D6 Dozers	_____	Equipment Operators
<u>2</u>	4,000 Gallon Water Trucks	_____	Truck Drivers
<u>1</u>	12,000 Gallon Water Towers	<u>4</u>	Laborers
<u>-</u>	14H Motor Graders	_____	Other:
<u>-</u>	Street Sweeper		
<u>-</u>	Big Gun Sprinklers		Daily Activities Start Time: <u>6:00 AM</u>
<u>1</u>	Other: <u>330 EXCAVATOR</u>		Daily Activities Stop Time: <u>6:00 PM</u>

4.0 Safety Related Topics (meetings, incidents, etc.): HEAT STRESS, PROPER PPE

5.0 Incidents affecting Production: _____

WEATHER CONDITION SUMMARY HOT, SUNNY 110+°F	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: _____ _____ _____ _____	Extra Work Tag Attached: <div style="border: 1px solid black; width: 40px; height: 40px; margin: 10px auto;"></div>
--	---	---

PROJECT MANAGER: Bob Ainelie <u>ERIK GETRINGER</u>	DATE: <u>7/17/10</u>
SIGNATURE: <u>Erik Getringer</u>	

Field Activity Report



environmental management, inc.

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Page 1 of 2

Date: 7/19/2010
 Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal Project No.: 2027.08, Task 10
 Client Name: Tronox LLC
 Weather: Clear Temperature: 110 to 115° F
 Site Conditions: Calm

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barron, Patrick Ferringer (drilling)

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>None</u>			

CONTRACTORS

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

Company	No. of Supervisors	No. of Workers	Remarks
<u>ENTACT</u>	<u>1</u>	<u>2</u>	

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

see page 2

Field Activity Report



environmental management, inc.

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Page 2 of 2

Date: 7/17/2010

Recorded By: Jim Carlson

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:

Comments:

• ENTACT spent day cleaning and decontaminating excavators, dozer, a walk truck

Waste Transport and Disposal Summary:

Transporter(s):

NA

Transporter Equipment:

No. Type:

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:

General Activities Summary:

- Northgate placed H&S barriers around exposed pipes, slip/trip/fall hazards around grade control tower foundation, etc.
- Northgate performed general demob activities

Print Name: Jim Carlson

Signature: [Signature]



ENTACT
Environmental Solutions in Waste Management

FIELD ACTIVITY DAILY LOG

DATE: 7/19/10
DAY: MONDAY

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

1.0 Summary of Construction Locations and Activities
PERFORMED DEMOBILIZATION ACTIVITIES INCLUDING SITE CLEAN UP & CLEANING OF EQUIPMENT

2.0 Daily Production

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
<u>2</u>	CAT 345 Excavators	<u>1</u>	Management Personnel
<u>1</u>	D6 Dozers		Equipment Operators
<u>1</u>	4,000 Gallon Water Trucks		Truck Drivers
<u>1</u>	12,000 Gallon Water Towers	<u>2</u>	Laborers
<u>-</u>	14H Motor Graders		Other:
<u>-</u>	Street Sweeper		
<u>-</u>	Big Gun Sprinklers		Daily Activities Start Time: <u>6:00 AM</u>
<u>1</u>	Other: <u>330 EXCAVATOR</u>		Daily Activities Stop Time: <u>6:00 PM</u>

4.0 Safety Related Topics (meetings, incidents, etc.): HEAT, USE OF CHEMICALS

5.0 Incidents affecting Production:

WEATHER CONDITION SUMMARY <u>HOT, SUNNY</u> <u>110 °F +</u>	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input type="checkbox"/>

PROJECT MANAGER: Bob Ainslie ERIK GEHRINGER

SIGNATURE: Erik Gehring DATE: 7/19/10

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: 7/20/2010

Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal Project No.: 2027.08, Task 10
 Client Name: Tronox LLC
 Weather: Clear Temperature: 110F +
 Site Conditions: Breezy

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barvan, Patrick Ferringer (drilling)

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>NA</u>			

CONTRACTORS

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

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

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

see page 2

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 2 of 2

Date: 7/20/2010
Recorded By: Jim Carolan

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, 1 D6 Dozer
1 wheel truck, 1 330 Excavator

Comments: ENTACT continues site demobilization and equipment decontamination

Waste Transport and Disposal Summary:

Transporter(s): None
Transporter Equipment:
No. Type:
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: NA

General Activities Summary:

Northgate provides oversight as well as project wrap-up activities

Print Name: Jim Carolan Signature: Jim Carolan



ENTACT
environmental solutions to waste management

FIELD ACTIVITY DAILY LOG

DATE: 7/20/10
DAY: TUESDAY

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

1.0 Summary of Construction Locations and Activities
CONTINUED DEMOBILIZATION ACTIVITIES
- CLEANING EQUIPMENT

2.0 Daily Production

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>1</u>	D6 Dozers		Equipment Operators
<u>1</u>	4,000 Gallon Water Trucks		Truck Drivers
<u>1</u>	12,000 Gallon Water Towers	<u>2</u>	Laborers
<u>-</u>	14H Motor Graders		Other:
<u>-</u>	Street Sweeper		
<u>-</u>	Big Gun Sprinklers		
<u>1</u>	Other: <u>330 EXCAVATOR</u>		

Daily Activities Start Time: 6:00 AM
Daily Activities Stop Time: 6:00 PM

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

5.0 Incidents affecting Production: _____

WEATHER CONDITION SUMMARY
HOT
SUNNY
110 °F +

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

Extra Work Tag Attached:

PROJECT MANAGER: ~~Bob Ainslie~~ ERIK GEHRINGER

SIGNATURE: Erik Gehring DATE: 7/22/10

Field Activity Report



environmental management, inc.

Page 1 of 2

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

Date: 7/21/2010
 Recorded By: Jim Carolan

Project Name: Manganese Tailings Removal Project No.: 2027.08, Task 10
 Client Name: Tronox LLC
 Weather: Clear Temperature: 108° F +
 Site Conditions: Calm

NORTHGATE PERSONNEL ON-SITE

Jim Carolan, Francisco Barron, Patrick Ferringer (drilling)

VISITORS

Name	Company/Agency	Time Arrived	Time Left
<u>None</u>			

CONTRACTORS

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

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

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

None

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 2 of 2

Date: 7/21/2010
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: None

Comments: Site demobilization and clean-up

Waste Transport and Disposal Summary:

Transporter(s): None
Transporter Equipment:
No. Type:
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:

General Activities Summary:

- * ENTACT completes punch list field items
- * Northgate completes project wrap up activities

Print Name: Jim Carolan Signature: [Signature]



ENTACT
Environmental Institute for Waste Management

FIELD ACTIVITY DAILY LOG

DATE:	7/21/10
DAY:	WEDNESDAY

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

1.0 Summary of Construction Locations and Activities
COMPLETED DEMOBILIZATION & CLEAN-UP ACTIVITIES

2.0 Daily Production

3.0 Equipment / Personnel Onsite

Quantity	Type	Quantity	Type
<u>1</u>	CAT 345 Excavators	<u>2</u>	Management Personnel
<u>1</u>	D6 Dozers		Equipment Operators
<u>1</u>	4,000 Gallon Water Trucks		Truck Drivers
<u>1</u>	12,000 Gallon Water Towers	<u>2</u>	Laborers
	14H Motor Graders		Other:
	Street Sweeper		
	Big Gun Sprinklers		
<u>1</u>	Other: <u>330 EXCAVATOR</u>		

Daily Activities Start Time: 6:00 AM
Daily Activities Stop Time: 6:00 PM

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

5.0 Incidents affecting Production:

WEATHER CONDITION SUMMARY <i>HOT SUNNY 108°F</i>	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:	Extra Work Tag Attached: <input type="checkbox"/>

PROJECT MANAGER: ~~Bob Ainslie~~ **ERIK GEHRINGER**

SIGNATURE: *Erik Gehring* DATE: 7/21/10