Field Activity Report

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					Page	<u>1 of 2</u>
	environmental ma	-		Nata.	2 ho 120	10
		10, Oakland, CA 94612	1	Daw: Recorded Rv		10
el: (510) 839-068	8 Fax: (510) 839	3-4350	1	Accoraca Dy:	JIM Car	0191.
Project Name:	Manganese T	ailings Removal		Project No.:	2027.08, Task 1	0
Client Name:	Tronox LLC			.	704	and.
Weather:	Clew	······································	1	emperature:	70'5 -	805
Site Conditions:	<u> </u>	t winds				
NORTHGATE	PERSONNEL Carolan * Itampten	ON-SITE David Behnka provides ove	(at DAQE	m Cison	8×00 to 1	600)
VISITORS	<u> </u>		Company/Agen	ev	Time Arrived	Time Left
Name			Company/rxgcn	~		
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CONTRACTO Primary Contra Supervisor:		ENTACT Bob Ainslie		307-359-1141 Manganese Ta	ilings Removal [*]	Гask
Company		No. of Supervisors	<u>s</u>	No. of Workers	R	emarks
ENTHO	-	4		0	Manganese	
las veg	as Paving	1		2	Parcel Re	media bon.
		· · · · · · · · · · · · · · · · · · ·				
					1	
*	<u>cr: 2</u>		covelos, 2		, 2 W	all theks,
	1	CAT 14# 60	ader (not in	Use)		
Las 1	legas Pau		r end loader	1 robl	ber hire bai	theel
	3	J 1 water	twck.			

Field	Activity	Report

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300 Frank H. Oga	environmental management, inc. awa Plaza, Suite 510, Oakland, CA 94612	Date: 5/11/2010
rel: (510) 839-068	88 Fax: (510) 839-4350	Recorded By: <u>Lum Carolan</u>
Project Name:	Manganese Tailings Removal	Project No.: 2027.08, Task 10
Client Name:	Tronox LLC	
EXACVATIO	ON ACTIVITIES SUMMARY	
Excavation Sur	nmary:	
Excavation Col		ENTACT TWO CAT 345 C EXCOURDORS
Excavation Eq	aipment:	1 Doze DON
Comments:	· Recordors	and worker with manacinese tailing and
omments.	+ranson/led 12	acced work with manganese tailings and 23 loads of makerial to Aper LandGII
	· CNITHET CONV	colled dust effectuely all day.
		i 1
Waste Press	sport and Disposal Summary:	
waste 1 rans	port and Disposal Summary.	
Fransporter(s)):	KMGA, Las Vegas Paving
Transporter E	quipment:	No. 2- Type: 2 Waily solloom dwnp No. Type: + Side dwnps
		No. Type: + Side dumps' No. Type:
Waste Type/Cl	lassification:	Soil/Non-Hazardous Waste, Waste Profile No. 3825104167
Disposal Facili		Apex Landfill, 13550 North US Highway 93, Las Vegas, Nevada
Comments:	" ENTACT USIN	KMGA Transport LLC Boltom Dumps
	Daubie Trailers	
		SY LUG WITHO PHONE SITE DOINDS
		st us who pacity sits asings
		si tas vigos pacity site asings
General Act	ivities Summary:	
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	 ENTACT transport Las Vegas Pa orchuites Que ENTACT transport ENTACT transport (manganese taik attached initia supporting de Northogole by 	Ved 123 Dads b Apex LandGII win onsik to complete demobilization parcel remediation. parcel remediation. police had incident on Highway 15 is releared to Highway surface). See i nothficigtion. Fricident report and ocumentation to be submitted to

 From:
 Erik Gehringer

 To:
 Jim Carolan

 Cc:
 Joshua Carroll; Amy Hearnsberger

 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 Erick,

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---- 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:egehringer@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.

Erik

Field Activity Report

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Tel: (510) 839-0688 Fax: (510) 839-4350 Recorded By: Project Name: Manganese Tailings Removal Project No.: 202 Client Name: Tronox LLC Weather: Warm bo Hot	5/21/2 JimCo	voley
300 Frank H. Ogawa Plaza, Suite 510, Oakland, CA 94612 Date: Tel: (510) 839-0688 Fax: (510) 839-4350 Recorded By: Project Name: Manganese Tailings Removal Project No.: 202 Client Name: Tronox LLC Temperature: Weather: Nacon bo Hot	5/21/2 JimCo	2010
Tel: (510) 839-0688 Fax: (510) 839-4350 Recorded By: Project Name: Manganese Tailings Removal Project No.: 202 Client Name: Tronox LLC Weather: Warm bo Hot	JimCo	voley
Client Name: Tronox LLC Weather: Warm to 1407 Temperature: 1	7.08, Task	10
Client Name: Tronox LLC Weather: Warm to 1407 Temperature: 1	7.08, Task	8 5 8
Weather: Warm to 1407 Temperature: 1		TA
	Mid ha	hich 904
Site Conditions: Itran winds, gusts to 30 mot in the	aftern	1900 ·
Site Conditions: Itign winds, gusts to 30 mph in the		
NORTHGATE PERSONNEL ON-SITE Jum Carolon		
VISITORS		
	ne Arrived	Time Left
	7:00	A 16:30
	·····	
CONTRACTORSPrimary Contractor Name:ENTACTPhone No.: 307-359-1141Supervisor:Bob AinslieTask: Manganese Tailing	gs Removal	Task
L T 6		
No. of Company No. of Supervisors Workers	a c	lemarks
CompanyNo. of SupervisorsWorkersENTACT29	<u> </u>	CH141 A5
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EQUIPMENT (not listed on page 2 of this summary report).		
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environmental management, inc.	$\frac{Page}{2} \frac{2}{of} \frac{2}{2}$
300 Frank H. Ogawa Plaza, Suite 510, Oakland, CA 94612	Date: $5/21/2010$
Tel: (510) 839-0688 Fax: (510) 839-4350	Recorded By: Jim Camlan
Project Name: Manganese Tailings Removal Client Name: Tronox LLC	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 Dozes, 2 Water Trucks, 1 141 Motor Grady.
	2 Water Trucks, 1 14th Motor Grady.
	1 Sheet Sweeper
Comments: 1 CAT excavely	with think attachment and 4
end dump truck	(i.e. change order) to handle
concrete debus	
Waste Transport and Disposal Summary:	
	A
Transporter(s):	Assolud
Transporter Equipment:	No. <u>1</u> Type: end dump
	No. ~35 Type: boltom dump.
	No. Type: J Soil/Non-Hazardous Waste, Waste Profile No. 3825104167
Waste Type/Classification:	Apex Landfill, 13550 North US Highway 93, Las Vegas, Nevada
Disposal Facility:	Apex Landini, 15550 North US Frighway 55, Las Vegas, Nevada
Comments:	
General Activities Summary:	
· ENTACT provided	effective dust control despile
high temperatures	and high winds.
· ENTACT Hanspo	iled 143 Toads of makrial to
Apex LandGIP.	
	·
	<u> </u>
Print Name: Jim Carolan	_ Signature: M C
	<i>U</i>

2.0 Daily Production 143 Truck Load's 775 3.0 Equipment / Personnel Onsite Quantity Type	LOCATION: Henderson, N 1.0 Summary of Construction Lo Log. Log.	cations and Activities	_OG 	nd C	DATE: DAY: PROJE	5 /	/ Z/ E-7856
5.0 Incidents affecting Production:	Quantity Type CAT 345 Excava D6 Dozers 4,000 Gallon Wa 12,000 Gallon Wa 14H Motor Grade Street Sweeper Big Gun Sprinkle Other: 4.0 Safety Related Topics (meet	tors ter Trucks fater Towers ers ers	Quantity 2 4 2 2 5 6 arc 1	Managemen Equipment Truck Drive Laborers Other:	Operato rs	rs	<u>I.A.</u> 2 <i>m</i>
PROJECT MANAGER: Bob Ainslie SIGNATURE: 93 / Alar DATE: 5/2/							

Field Activity Report

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	environmental m				Page	e_1_of_2	
300 Frank H. Ogawa Plaza, Suite 510, Oakland, CA 94612				Date:			
Tel: (510) 839-068				Recorded By:	Vina C	<u>olo</u> amblen	
(,				•			
	ject Name: <u>Manganese Tailings Removal</u>			Project No.: 2027.08, Task 10			
Client Name:	Tronox LLC			• •••••	amon à		
Weather:	<u>Clear</u>			Temperature:	70'>	-80'5	
Site Conditions:	B	reezy to Windy					
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NORTHGATE			0				
Jim	(arol	on Francisco	Darron				
		, 					
VISITORS			a u			a (1811) 16 ev	
Name	5		Company/Ager		Time Arrived		
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	·········						
						<u></u>	
CONTRACTO	26						
Primary Contra		ENTACT	Phone No.:	307-359-1141			
Supervisor:		Bob Ainslie		Manganese Ta	ilings Removal	Task	
				<u>C</u>			
				No. of			
Company		No. of Supervisors		Workers)	Remarks	
ENTAC	T	2		ໆ			
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EQUIPMENT (not listed on p	page 2 of this summary re	port).				
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Managanese Tailings Field Activity Report Template.xls

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	vironmental management, inc.		Page 2 of 2
-	Plaza, Suite 510, Oakland, CA 94612	Date:	5/25/200 Jun Carlon
Tel: (510) 839-0688 F	ax: (510) 839-4350	Recorded By:	JWA CADIER
	anganese Tailings Removal	Project No.: 202	7.08, Task 10
Client Name: <u>T</u>	ronox LLC		
EXACVATION	ACTIVITIES SUMMARY		
Excavation Summa	nry:		
Excavation Contra	ctor:	ENTACT	
Excavation Equipr		2 CAT 345C ESC	onglass 2 DG Dozels
		2 Wales trucks 2 street sweet	114H Moho Gradei
		1 street suke	<u>per</u>
_	ÿ		3
Comments:			· · · · · · · · · · · · · · · · · · ·
	···		
Waste Transpor	t and Disposal Summary:	<u></u>	
Transportar(c).		Accorded	
Transporter(s): Transporter Equip	ment	No. ~35 Typ	e: Boltom dump
stanoporter Equi	FREAT AN 64	No. Ty	
		No. Tyr	
Waste Type/Classi	fication:	Soil/Non-Hazardous Waste, Was	
Disposal Facility:			Highway 93, Las Vegas, Nevada
Comments:	See	attached not	ication)
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	~		······································
General Activiti	TA TRACT and de	+ effective dust	control throughout day
	ENTACT Mansp	a stream augi	of malerial la
		near 1.25 10aas	
	Apex		E. J. co. J. Co. al-c
	· HARANO INDAY	an ENTACT thek	in subcontructor
	had an Inci	dent where mana	anese tailings were
	placed on o	public right to	if way.
	See altached	nohhcatists	<u> </u>
	· Normany met	at Aber Land	all to assist
	· Norman met Republic with	manifest Scannin	2. uploading.
	- IXYVING (MILLO		
	······································		
Print Name: _	Jim Carolan	Signature:	Man
		<i>U</i>	

	FIELD AC			DATE:	5	128
	DAILY	LOG		DAY:		
ENTACT				L	<u> </u>	
CANFORMERIUL INCLUS IN WOME MOROGENEME	ngs Removal Project			PRO.II	ECT NO	E-7856
LOCATION: Henderson, 1.0 Summary of Construction I				I		······································
//	erting from	ALC		ceh	TO -	South
2.0 Daily Production	1	to a start of	9			
	Truch Lond's	150				
3.0 Equipment / Personnel On	<u>site</u>					
Quantity Type		Quantity	Туре			
CAT 345 Excav	ators	2	Managemen	t Perso	nnel	
9 D6 Dozers		4	Equipment (
2 4,000 Gallon W	ater Trucks	2	Truck Driver	-		
		2		-		
12,000 Gallon \						
14H Motor Grad			Other: 60	i71		
Street Sweeper	Street Sweeper					
<u> </u>	<u>3</u> Big Gun Sprinklers			Daily Activities Start Time: <u>6 Am</u>		
Other: Daily Activities Stop Time: <u>6 Pan</u>						
4.0 Safety Related Topics (me	etings incidents etc.):					
4.0 Salely Melaleu Topics (Ille	Annyo, montento, etc.).					
5.0 Incidents affecting Product	ion: <u>See altached</u>	Summer	regardy .	Trek	made	<u>int</u>
	- ·		<u> </u>			
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WEATHER CONDITION SUMMARY	CHANGES FROM PLANS AND SP ORDERS AND IMPORTANT DECI		S, AND OTHER S	PECIAL		Extra Work Tag Attached:
Sunny 25						radoriou.
Sunny 75 Windy 15/20	· · · · · · · · · · · · · · · · · · ·					
	······································	<u></u>				
PROJECT MANAGER: Bob Ainslie						
SIGNATURE:	The			DA	TE: 3	-[28
	to the trice					

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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:	<u>Clinker, Mark</u>
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
	<u>Tronox 3 052810.JPG</u>
	<u>Tronox 4 052810, JPG</u>
	Tronox 005.jpg
	<u>Tronox 006.jpg</u>

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