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memorandum

Environmental Protection Division
Water Quality & RCRA Group (ENV-RCRA)

To/MS: Andy Baumer, TA54CL, C348
Thru/MS: Anthony R. Grieggs, ENV-RCRA, K490
From/MS: Frank C. Chromec, OS-BSI, C349
Phone/Fax: 500-2400/7-5224
Symbol: ENV-RCRA-10-154
Date: August 11, 2010

SUBJECT: RECOMMENDATION FOR SAMPLING OF FILL FROM ESPANOLA TRANSIT-MIX FOR MDA-B

On the afternoon of July 28, 2010, I met Ignacio Lucero, the Quality Assurance Manager for Espanola Transit-Mix. He provided a tour of the processing site, located to the north of Fairview Drive, between the Rio Grande River and Route 68, and the source pit (El Guique pit) to the north of Espanola near Black Mesa (Figure1). El Guique Pit is the only source of material used for base-course and fill by Espanola Transit-Mix.

The operation appears to be well organized and has several crushers/sorters at the Espanola site. Materials from El Guique Pit are trucked to the processing site for crushing, sizing and mixing. No maintenance or other activity related to equipment takes place at the source pit.

The El Guique Pit is located about 6 miles north of Espanola, off route 291 (Figure 1). The pit is on the slope of Black Mesa (Figure 2). The area has never been developed or had residential, industrial, or agricultural land use. Vegetation is sparse and would not support grazing. The area is comprised of thick aluvial deposits with veins of various size cobble. Espanola Transit-Mix mines these deposits and veins for use as fill, cobble, base-course, and for production of cement and asphalt. The materials are transported back to their plant for crushing, sorting and, mixing.

Espanola Transit-Mix has provided the TA-21 Project with a Certificate of Compliance (Attachment 1), based on acceptable knowledge of the source area. My observations at the pit and at the processing center also support this conclusion. Five random samples of base-course were analyzed for radionuclides and one for metals. All results were far below NMED residential Soil Screening Levels (SSLs). I recommend that no further sampling be done before use of newly delivered base-course and fill, based on acceptable knowledge and previous sampling results.

ARG:FC/lm

Attachments: a/s

Cy: Bruce Schappell, ADEP, C348
Tori George, REG-DO, M991
Steve Henry, TA21-DO, C348
Stephen Pulsford, TA21, C349

35217

Cy (continued):
Alan Church, ENV-RCRA, K490
Kate Lynnes, REG-COM, M991
TA-21 Recovery Act Office File, C348
ENV-RCRA File, K490

ATTACHMENTS

ESPANOLA TRANSIT-MIX
MATERIALS CERTIFICATE OF COMPLIANCE

1. PROJECT NAME: **LOS ALAMOS, TA-21**
2. CONTRACTOR: **SG WESTERN CONSTRUCTION, INC.**
3. DATE: **June 30, 2010**
4. ITEM NO. & DESCRIPTION: **NMDOT BASE COURSE**
5. QUANTITY: **NOT TO EXCEED 22,000 TONS**
6. SHIPMENT NUMBER: **N/A**
7. "HEAT # LOT # BATCH NO": **N/A**
8. "SEAL NUMBER": **N/A**
9. MANUFACTURE OF MATERIAL: **ESPANOLA TRANSIT-MIX, EL GUIQUE PIT**

AS MATERIAL SUPPLIER ON THIS PROJECT, I CERTIFY THE FOLLOWING:

THAT ALL MATERIALS ARE FREE OF CONTAMINATION.

PRINTED NAME OF COMPANY OFFICIAL: **Ignacio V. Lucero Jr.**

SIGNATURE OF COMPANY OFFICIAL: Ignacio V. Lucero Jr.

TITLE: **QUALITY ASSURANCE MANAGER**

Figure 1 - Location of El Guique Pit in relation to Espanola

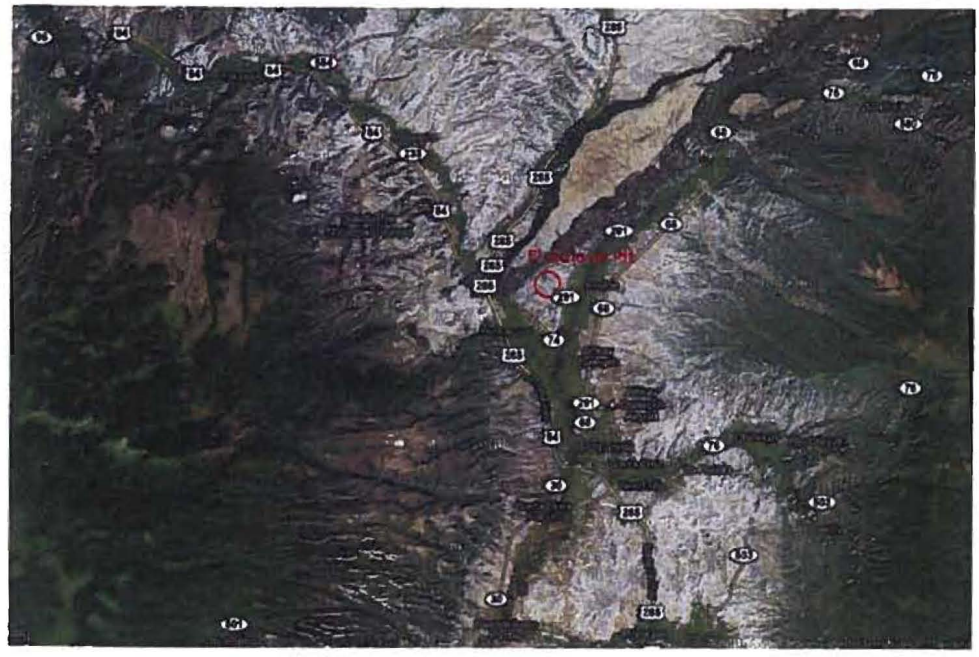
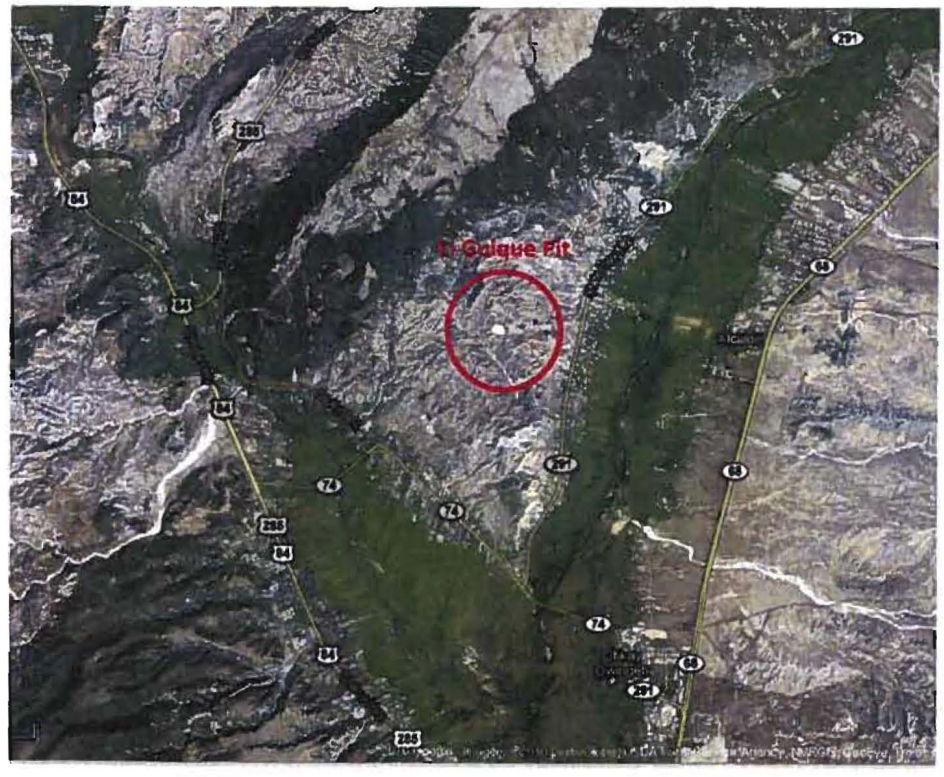


Figure 2 - Location of Espanola Transit-Mix, El Guique Pit on toe of Black Mesa



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ENV-Group:	ENV-RCRA	Yes: ☐	Yes: ☑	—
Doc. #:	10-154	No: ☐	No: ☐	
Is this a response to an action item		Yes: ☐	No: ☑	

Email	☐	Document Date:	08/04/10
Memo	☑	Due Date:	—
Letter	☐		

To:	Andy Baumer
Subject:	Recommendation for Sampling of Fill from Espanola Transit-Mix for MDA-B
Action:	***Review and endorse***
Background / Issues	

Authorizing Official	***Name***	**Signature**	**Date**
From (Ghost Writer)	Frank Chromec	[signature]	8/4/201-
Author	Anthony R. Grieggs		
Group Leader	Anthony R. Grieggs		
Deputy Group Leader	Tina Marie Sandoval	[signature]	8/11
Division Leader	Dennis J. Hjeresen		
ADC Review			
DUSA / SAFE-7			
LC-LESH Review			
Coordinated with Facility or Program			
Comments:			

Hand Deliver: ☐ **Express Mail:** ☐ **FedEX:** ☐ **CRRR:** ☐ **Regular Mail Service:** ☑

Group Office Use Only			
Final Distribution: Lorella		**Scanned by:**	Lorella
Time: 11:30	**Date:** 8-12-10	**Date:**	8-12-10
		Logged by:	Lorella
Distribution to IRM-RMMSO, A150:		**Date:**	8-12-10
Time: —	**Date:** —		

In ENV-DO-QP-108.1

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2697 **EVENT NAME:** 21-015 - Base Course & Asphalt Samples - Waste

SAMPLE ID: WST21-10-14178 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		3/12/2010	MEDIA:	NA	OK
TIME COLLECTED (HH:MM)		0900	SUB-MEDIA:	OTHER	
PRS ID:	21-015	OK	SAMPLE TECH CODE:	SS	
LOCATION ID:	WST-600902		FIELD QC TYPE:	NA	
LOCATION TYPE:	GENERIC		FIELD PREP:	NA	
TOP DEPTH:	0		SAMPLE USAGE:	WST	
BOTTOM DEPTH:	0		SCREEN/PORT DESC:	NA	
FIELD MATRIX:	EM		EXCAVATED: YES / NO / NA		

COMPOSITE TYPE: VC COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES / NO / NA

BOREHOLE: YES / NO / NA BOREHOLE DECLINATION: NA BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	30 DAY	AM+PU+U+SR+H3+GS+MET	1 GAL POLY	Ice	Y	NO

SAMPLE DESC:

base course

SAMPLE COMMENTS:

base course to be placed on MDA B site

LOCATION DESC:

base course stockpile, location #1

FIELD SCREENING/MEASUREMENT RESULTS:

RAD: <MDA ; bkgrd: α = 9 dpm, β/γ = 1281 dpm

COLLECTED BY (PRINT) Lindsay Ray **REVIEWED BY (PRINT)** Erle Herbert

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Lindsay Ray (Signature)	3/12/2010 1350	(Printed Name) (Signature)	3/12/10 1150
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name) (Signature)		(Printed Name) (Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2697 EVENT NAME: 21-015 - Base Course & Asphalt Samples - Waste

SAMPLE ID: WST21-10-14179 WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		3/12/2010	MEDIA:	NA	OK
TIME COLLECTED (HH:MM)		0900	SUB-MEDIA:	OTHER	
PRS ID:	21-015	OK	SAMPLE TECH CODE:	SS	
LOCATION ID:	WST-600902		FIELD QC TYPE:	NA	
LOCATION TYPE:	GENERIC		FIELD PREP:	NA	
TOP DEPTH:	0		SAMPLE USAGE:	WST	
BOTTOM DEPTH:	0		SCREEN/PORT DESC:		NA
FIELD MATRIX:	EM		EXCAVATED: YES / NO / NA		

COMPOSITE TYPE: VC COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES / NO / NA

BOREHOLE: YES / NO / NA BOREHOLE DECLINATION: NA BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	30 DAY	AM+PU+U+SR+H3+GS+~~MET~~	1 GAL POLY	Ice	Y	NO METALS

SAMPLE DESC: lph 3/12/2010

base course

SAMPLE COMMENTS:

base course to be placed on MDAB site

LOCATION DESC:

base course stockpile, location #2

FIELD SCREENING/MEASUREMENT RESULTS:

RAD: < MDA; bkgrd: α = 9 dpm, β/γ = 1281 dpm

COLLECTED BY (PRINT) Lindsay Ray REVIEWED BY (PRINT) Erele Herbert

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Lindsay Ray (Signature)	3/12/2010 1350	(Printed Name) (Signature)	3/12/10 1150
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2697 **EVENT NAME:** 21-015 - Base Course & Asphalt Samples - Waste

SAMPLE ID: WST21-10-14180 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		3/12/2010	MEDIA:	NA	OK
TIME COLLECTED (HH:MM)		0900	SUB-MEDIA:	OTHER	
PRS ID:	21-015	OK	SAMPLE TECH CODE:	SS	
LOCATION ID:	WST-600902		FIELD QC TYPE:	NA	
LOCATION TYPE:	GENERIC		FIELD PREP:	NA	
TOP DEPTH:	0		SAMPLE USAGE:	WST	
BOTTOM DEPTH:	0		SCREEN/PORT DESC:		NA
FIELD MATRIX:	EM		EXCAVATED: YES / NO / NA		

COMPOSITE TYPE: VC COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES / NO / NA

BOREHOLE: YES / NO / NA BOREHOLE DECLINATION: NA BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	30 DAY	AM+PU+U+SR+H3+GS+~~MET~~	1 GAL POLY	Ice	Y	NO METALS

SAMPLE DESC: lph 3/12/2010

base course

SAMPLE COMMENTS:

base course to be placed on MDA B site

LOCATION DESC:

base course stockpile, location #3

FIELD SCREENING/MEASUREMENT RESULTS:

RAD: <MDA ; bkgrd: α = 9 dpm, β/γ = 1281 dpm

COLLECTED BY (PRINT) Lindsay Ray **REVIEWED BY (PRINT)** Erle Herbert

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Lindsay Ray (Signature)	3/12/2010 1350	(Printed Name) (Signature)	3/12/10 1:50
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2697 EVENT NAME: 21-015 - Base Course & Asphalt Samples - Waste

SAMPLE ID: WST21-10-14181 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		3/12/2010	MEDIA:	NA	OK
TIME COLLECTED (HH:MM)		0900	SUB-MEDIA:	OTHER	
PRS ID:	21-015	OK	SAMPLE TECH CODE:	SS	
LOCATION ID:	WST-600902		FIELD QC TYPE:	NA	
LOCATION TYPE:	GENERIC		FIELD PREP:	NA	
TOP DEPTH:	0		SAMPLE USAGE:	WST	
BOTTOM DEPTH:	0		SCREEN/PORT DESC:	NA	
FIELD MATRIX:	EM		EXCAVATED: YES / NO / NA		

COMPOSITE TYPE: VC COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES / NO / NA

BOREHOLE: YES / NO / NA BOREHOLE DECLINATION: NA BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	30 DAY	AM+PU+U+SR+H3+GS+~~MET~~	1 GAL POLY	Ice	Y	NO METALS

SAMPLE DESC: lph 3/12/10

base course

SAMPLE COMMENTS:

base course to be placed @ MDA B site; field duplicate (FD) sample collected. FD sample ID: WST21-10-14196

LOCATION DESC:

base course stockpile, location #4

FIELD SCREENING/MEASUREMENT RESULTS:

RAD: < MDA; bkgrd: α = 9 dpm, β/γ = 1281 dpm

COLLECTED BY (PRINT) Lindsay Hay **REVIEWED BY (PRINT)** Eric Herbert

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Lindsay Hay (Signature)	3/12/2010 1350	(Printed Name) (Signature)	3/12/10 1:50
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name) (Signature)		(Printed Name) (Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2697 **EVENT NAME:** 21-015 - Base Course & Asphalt Samples - Waste

SAMPLE ID: WST21-10-14182 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		3/12/2010	MEDIA:	NA	OK
TIME COLLECTED (HH:MM)		0900	SUB-MEDIA:	OTHER	
PRS ID:	21-015	OK	SAMPLE TECH CODE:	SS	
LOCATION ID:	WST-600902		FIELD QC TYPE:	NA	
LOCATION TYPE:	GENERIC		FIELD PREP:	NA	
TOP DEPTH:	0		SAMPLE USAGE:	WST	
BOTTOM DEPTH:	0		SCREEN/PORT DESC:		NA
FIELD MATRIX:	EM		EXCAVATED: YES / NO / NA		

COMPOSITE TYPE: VC COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES / NO / NA

BOREHOLE: YES / NO / NA BOREHOLE DECLINATION: NA BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	30 DAY	AM+PU+U+SR+H3+GS~~+MET~~	1 GAL POLY	Ice	Y	NO METALS

SAMPLE DESC: lph 3/12/2010

base course

SAMPLE COMMENTS:

base course to be placed on the MDA B site

LOCATION DESC:

base course stockpile, location # 5

FIELD SCREENING/MEASUREMENT RESULTS:

RAD: <MDA ; bkgrd: α = 9 dpm, β/γ = 1281 dpm

COLLECTED BY (PRINT) Lindsay Ary **REVIEWED BY (PRINT)** Erele Herbert

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Lindsay Ary	3/12/2010	(Printed Name)	3/12/10
(Signature)	1350	(Signature)	1:50
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2697 **EVENT NAME:** 21-015 - Base Course & Asphalt Samples - Waste

SAMPLE ID: WST21-10-14196 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		3/12/2010	MEDIA:	NA	ok
TIME COLLECTED (HH:MM)		0900	SUB-MEDIA:	OTHER	
PRS ID:	21-015	ok	SAMPLE TECH CODE:	SS	
LOCATION ID:	WST-600902		FIELD QC TYPE:	FD	
LOCATION TYPE:	GENERIC		FIELD PREP:	NA	
TOP DEPTH:	0		SAMPLE USAGE:	QC	
BOTTOM DEPTH:	0		SCREEN/PORT DESC:	NA	
FIELD MATRIX:	EM		EXCAVATED: YES / NO / NA		

COMPOSITE TYPE: VC COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES / NO / NA

BOREHOLE: YES / NO / NA BOREHOLE DECLINATION: NA BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	30 DAY	AM+PU+U+SR+H3+GS+~~MET~~	1 GAL POLY	Ice	Y	NO METALS

SAMPLE DESC: QC Sample of base course ph 3/12/10

SAMPLE COMMENTS:
base course to be placed @ MDAB site; FD sample of sample ID: WST21-10-14181

LOCATION DESC:
base course stockpile, location #4

FIELD SCREENING/MEASUREMENT RESULTS:
RAD: < MDA, bkgrd: α = 9 dpm, β/γ = 1281 dpm

COLLECTED BY (PRINT) Lindsay Day REVIEWED BY (PRINT) Eric Herbert

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Lindsay Day	3/12/2010	(Printed Name)	3/12/10
(Signature)	1350	(Signature)	1:50
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

Five Samples of base-course from Espanola Transit Mix (3-12-2010)

Bold results are above the Background Value

Lab Request Number	Sample Name	Analytical Suite Code	Analytical Method Code	Analyte Code	Analyte Description	Validation Qualifier Code	Validation Reason Code	Lab Qualifier Code	Lab QC Type Code	Validation Status Code	Result UOM Code	Lab Result	Residential SSL or SAL	Background
10-2458	WST21-10-14178	METALS	SW-846:6010B	Al	Aluminum	NQ	NQ	Null	CS	Validated	mg/kg	3300	78096	29200
10-2458	WST21-10-14178	GAMMA_SPEC	EPA:901.1	Am-241	Americium-241	U	R5	U	CS	Validated	pCi/g	1.17	30	0.013
10-2458	WST21-10-14178	AM_241	HASL-300:AM-	Am-241	Americium-241	U	R5	U	CS	Validated	pCi/g	0.008	30	0.013
10-2460	WST21-10-14179	AM_241	HASL-300:AM-	Am-241	Americium-241	U	R11	Null	RE	Validated	pCi/g	0.076	30	0.013
10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	Am-241	Americium-241	U	R5	U	CS	Validated	pCi/g	0.0193	30	0.013
10-2460	WST21-10-14179	AM_241	HASL-300:AM-	Am-241	Americium-241	U	R5	U	CS	Validated	pCi/g	-0.0232	30	0.013
10-2460	WST21-10-14180	AM_241	HASL-300:AM-	Am-241	Americium-241	U	R11	Null	RE	Validated	pCi/g	0.0264	30	0.013
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	Am-241	Americium-241	U	R5	U	CS	Validated	pCi/g	0.0016	30	0.013
10-2460	WST21-10-14180	AM_241	HASL-300:AM-	Am-241	Americium-241	U	R5	U	CS	Validated	pCi/g	-0.1696	30	0.013
10-2460	WST21-10-14181	AM_241	HASL-300:AM-	Am-241	Americium-241	U	R5	U	CS	Validated	pCi/g	0.6523	30	0.013
10-2460	WST21-10-14181	AM_241	HASL-300:AM-	Am-241	Americium-241	U	R5	U	RE	Validated	pCi/g	0.0336	30	0.013
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	Am-241	Americium-241	U	R5	U	CS	Validated	pCi/g	0.0156	30	0.013
10-2460	WST21-10-14182	AM_241	HASL-300:AM-	Am-241	Americium-241	U	R5	U	CS	Validated	pCi/g	0.396	30	0.013
10-2460	WST21-10-14182	AM_241	HASL-300:AM-	Am-241	Americium-241	U	R5	U	RE	Validated	pCi/g	0.0389	30	0.013
10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	Am-241	Americium-241	U	R5	U	CS	Validated	pCi/g	0.0011	30	0.013
10-2458	WST21-10-14178	METALS	SW-846:6010B	Sb	Antimony	J-	I6a	BN	CS	Validated	mg/kg	0.48	31	0.83
10-2458	WST21-10-14178	METALS	SW-846:6010B	As	Arsenic	NQ	NQ	Null	CS	Validated	mg/kg	1.6	4	8.17
10-2458	WST21-10-14178	METALS	SW-846:6010B	Ba	Barium	NQ	NQ	*	CS	Validated	mg/kg	54	15596	295
10-2458	WST21-10-14178	METALS	SW-846:6010B	Be	Beryllium	J	I1	B	CS	Validated	mg/kg	0.22	156	1.83
10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	Bi-211	Bismuth-211	R	R5a	UI	CS	Validated	pCi/g	2.0491	na	na
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	Bi-211	Bismuth-211	R	R5a	UI	CS	Validated	pCi/g	2.0792	na	na
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	Bi-211	Bismuth-211	R	R5a	UI	CS	Validated	pCi/g	1.6739	na	na
10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	Bi-211	Bismuth-211	R	R5a	UI	CS	Validated	pCi/g	1.9555	na	na
10-2458	WST21-10-14178	GAMMA_SPEC	EPA:901.1	Bi-214	Bismuth-214	NQ	NQ	Null	CS	Validated	pCi/g	0.63	na	na
10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	Bi-214	Bismuth-214	NQ	NQ	Null	CS	Validated	pCi/g	0.7034	na	na
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	Bi-214	Bismuth-214	NQ	NQ	Null	CS	Validated	pCi/g	0.7451	na	na
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	Bi-214	Bismuth-214	NQ	NQ	Null	CS	Validated	pCi/g	0.6378	na	na
10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	Bi-214	Bismuth-214	NQ	NQ	Null	CS	Validated	pCi/g	0.5887	na	na
10-2458	WST21-10-14178	METALS	SW-846:6010B	B	Boron	J	I4a	B	CS	Validated	mg/kg	0.88	15642	
10-2458	WST21-10-14178	METALS	SW-846:6010B	Cd	Cadmium	U	U_LAB	U	CS	Validated	mg/kg	**0.51**	78	0.4
10-2458	WST21-10-14178	GAMMA_SPEC	EPA:901.1	Cd-109	Cadmium-109	U	R5	U	CS	Validated	pCi/g	0.5	na	na
10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	Cd-109	Cadmium-109	U	R5	U	CS	Validated	pCi/g	-0.8112	na	na
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	Cd-109	Cadmium-109	U	R5	U	CS	Validated	pCi/g	0.0042	na	na
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	Cd-109	Cadmium-109	U	R5	U	CS	Validated	pCi/g	0.0603	na	na
10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	Cd-109	Cadmium-109	R	R5a	UI	CS	Validated	pCi/g	1.0666	na	na
10-2458	WST21-10-14178	METALS	SW-846:6010B	Ca	Calcium	R	I6	N*	CS	Validated	mg/kg	**9000**	na	6120
10-2458	WST21-10-14178	GAMMA_SPEC	EPA:901.1	Ce-139	Cerium-139	U	R5	U	CS	Validated	pCi/g	-0.046	na	na
10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	Ce-139	Cerium-139	U	R5	U	CS	Validated	pCi/g	0.0201	na	na
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	Ce-139	Cerium-139	U	R5	U	CS	Validated	pCi/g	-0.0061	na	na
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	Ce-139	Cerium-139	U	R5	U	CS	Validated	pCi/g	0.0095	na	na
10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	Ce-139	Cerium-139	U	R5	U	CS	Validated	pCi/g	0.0124	na	na
10-2458	WST21-10-14178	GAMMA_SPEC	EPA:901.1	Cs-134	Cesium-134	U	R5	U	CS	Validated	pCi/g	0.031	2.4	na
10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	Cs-134	Cesium-134	U	R5	U	CS	Validated	pCi/g	0.0454	2.4	na
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	Cs-134	Cesium-134	U	R5	U	CS	Validated	pCi/g	0.0095	2.4	na

Five Samples of base-course from Espanola Transit Mix (3-12-2010)

Bold results are above the Background Value

Lab Request Number	Sample Name	Analytical Suite Code	Analytical Method Code	Analyte Code	Analyte Description	Validation Qualifier Code	Validation Reason Code	Lab Qualifier Code	Lab QC Type Code	Validation Status Code	Result UOM Code	Lab Result	Residential SSL or SAL	Background
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	Cs-134	Cesium-134	U	R5	U	CS	Validated	pCi/g	0.0099	2.4	na
10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	Cs-134	Cesium-134	U	R5	U	CS	Validated	pCi/g	0.0158	2.4	na
10-2458	WST21-10-14178	GAMMA_SPEC	EPA:901.1	Cs-137	Cesium-137	U	R5	U	CS	Validated	pCi/g	-0.071	5.6	1.65
10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	Cs-137	Cesium-137	U	R5	U	CS	Validated	pCi/g	0.0001	5.6	1.65
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	Cs-137	Cesium-137	U	R5	U	CS	Validated	pCi/g	-0.0027	5.6	1.65
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	Cs-137	Cesium-137	U	R5	U	CS	Validated	pCi/g	0.0104	5.6	1.65
10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	Cs-137	Cesium-137	U	R5	U	CS	Validated	pCi/g	-0.0041	5.6	1.65
10-2458	WST21-10-14178	METALS	SW-846:6010B	Cr	Chromium	NQ	NQ	Null	CS	Validated	mg/kg	6.6	219	19.3
10-2458	WST21-10-14178	METALS	SW-846:6010B	Co	Cobalt	NQ	NQ	Null	CS	Validated	mg/kg	3.2	na	8.64
10-2458	WST21-10-14178	GAMMA_SPEC	EPA:901.1	Co-60	Cobalt-60	U	R5	U	CS	Validated	pCi/g	-0.036	1.3	na
10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	Co-60	Cobalt-60	U	R5	U	CS	Validated	pCi/g	0	1.3	na
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	Co-60	Cobalt-60	U	R5	U	CS	Validated	pCi/g	-0.0078	1.3	na
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	Co-60	Cobalt-60	U	R5	U	CS	Validated	pCi/g	0.0007	1.3	na
10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	Co-60	Cobalt-60	U	R5	U	CS	Validated	pCi/g	0.0039	1.3	na
10-2458	WST21-10-14178	METALS	SW-846:6010B	Cu	Copper	NQ	NQ	*	CS	Validated	mg/kg	9.9	3129	14.7
10-2458	WST21-10-14178	GAMMA_SPEC	EPA:901.1	Eu-152	Europium-152	U	R5	U	CS	Validated	pCi/g	-0.22	2.9	na
10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	Eu-152	Europium-152	R	R5a	UI	CS	Validated	pCi/g	0.1155	2.9	na
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	Eu-152	Europium-152	U	R5	U	CS	Validated	pCi/g	-0.0445	2.9	na
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	Eu-152	Europium-152	R	R5a	UI	CS	Validated	pCi/g	0.1495	2.9	na
10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	Eu-152	Europium-152	U	R5	U	CS	Validated	pCi/g	-0.0223	2.9	na
10-2458	WST21-10-14178	METALS	SW-846:6010B	Fe	Iron	NQ	NQ	Null	CS	Validated	mg/kg	9500	54750	21500
10-2458	WST21-10-14178	METALS	SW-846:6010B	Pb	Lead	NQ	NQ	Null	CS	Validated	mg/kg	4.2	400	22.3
10-2458	WST21-10-14178	GAMMA_SPEC	EPA:901.1	Pb-212	Lead-212	NQ	NQ	Null	CS	Validated	pCi/g	0.4	na	na
10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	Pb-212	Lead-212	NQ	NQ	Null	CS	Validated	pCi/g	0.9547	na	na
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	Pb-212	Lead-212	NQ	NQ	Null	CS	Validated	pCi/g	0.8003	na	na
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	Pb-212	Lead-212	NQ	NQ	Null	CS	Validated	pCi/g	0.6144	na	na
10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	Pb-212	Lead-212	NQ	NQ	Null	CS	Validated	pCi/g	0.705	na	na
10-2458	WST21-10-14178	GAMMA_SPEC	EPA:901.1	Pb-214	Lead-214	NQ	NQ	Null	CS	Validated	pCi/g	0.68	na	na
10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	Pb-214	Lead-214	NQ	NQ	Null	CS	Validated	pCi/g	0.8182	na	na
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	Pb-214	Lead-214	NQ	NQ	Null	CS	Validated	pCi/g	0.8358	na	na
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	Pb-214	Lead-214	NQ	NQ	Null	CS	Validated	pCi/g	0.65	na	na
10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	Pb-214	Lead-214	NQ	NQ	Null	CS	Validated	pCi/g	0.7275	na	na
10-2458	WST21-10-14178	METALS	SW-846:6010B	Mg	Magnesium	NQ	NQ	Null	CS	Validated	mg/kg	2200	na	4610
10-2458	WST21-10-14178	METALS	SW-846:6010B	Mn	Manganese	J+	I6b	N	CS	Validated	mg/kg	200	10723	671
10-2458	WST21-10-14178	METALS	SW-846:7471A	Hg	Mercury	U	U_LAB	U	CS	Validated	mg/kg	0.034	7.71	0.1
10-2458	WST21-10-14178	GAMMA_SPEC	EPA:901.1	Hg-203	Mercury-203	U	R5	U	CS	Validated	pCi/g	0.017	na	na
10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	Hg-203	Mercury-203	U	R5	U	CS	Validated	pCi/g	0.0199	na	na
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	Hg-203	Mercury-203	U	R5	U	CS	Validated	pCi/g	-0.0122	na	na
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	Hg-203	Mercury-203	U	R5	U	CS	Validated	pCi/g	0.0061	na	na
10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	Hg-203	Mercury-203	U	R5	U	CS	Validated	pCi/g	-0.0175	na	na
10-2458	WST21-10-14178	METALS	SW-846:6010B	Ni	Nickel	NQ	NQ	E	CS	Validated	mg/kg	6	1564	15.4
10-2458	WST21-10-14178	ISO_PU	HASL-300:ISOPU	Pu-238	Plutonium-238	U	R5	U	CS	Validated	pCi/g	-0.0051	37	0.023
10-2460	WST21-10-14179	ISO_PU	HASL-300:ISOPU	Pu-238	Plutonium-238	U	R5	U	CS	Validated	pCi/g	0.0152	37	0.023
10-2460	WST21-10-14179	ISO_PU	HASL-300:ISOPU	Pu-238	Plutonium-238	U	R5	U	RE	Validated	pCi/g	0.0021	37	0.023

Five Samples of base-course from Espanola Transit Mix (3-12-2010)

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10-2460	WST21-10-14180	ISO_PU	HASL-300:ISOPU	Pu-238	Plutonium-238	U	R5	U	CS	Validated	pCi/g	0.008	37	0.023
10-2460	WST21-10-14180	ISO_PU	HASL-300:ISOPU	Pu-238	Plutonium-238	U	R5	U	RE	Validated	pCi/g	0.0027	37	0.023
10-2460	WST21-10-14181	ISO_PU	HASL-300:ISOPU	Pu-238	Plutonium-238	NQ	NQ	Null	CS	Validated	pCi/g	**0.0588**	37	0.023
10-2460	WST21-10-14181	ISO_PU	HASL-300:ISOPU	Pu-238	Plutonium-238	U	R5	U	RE	Validated	pCi/g	0.0053	37	0.023
10-2460	WST21-10-14182	ISO_PU	HASL-300:ISOPU	Pu-238	Plutonium-238	U	R5	U	RE	Validated	pCi/g	0.0176	37	0.023
10-2460	WST21-10-14182	ISO_PU	HASL-300:ISOPU	Pu-238	Plutonium-238	U	R5	U	CS	Validated	pCi/g	0.013	37	0.023
10-2458	WST21-10-14178	ISO_PU	HASL-300:ISOPU	Pu-239/240	Plutonium-	U	R5	U	CS	Validated	pCi/g	-0.0057	37	0.023
10-2460	WST21-10-14179	ISO_PU	HASL-300:ISOPU	Pu-239/240	Plutonium-	NQ	NQ	Null	RE	Validated	pCi/g	**0.1969**	33	0.054
10-2460	WST21-10-14179	ISO_PU	HASL-300:ISOPU	Pu-239/240	Plutonium-	NQ	NQ	Null	CS	Validated	pCi/g	**0.0982**	33	0.054
10-2460	WST21-10-14180	ISO_PU	HASL-300:ISOPU	Pu-239/240	Plutonium-	NQ	NQ	Null	RE	Validated	pCi/g	**0.0913**	33	0.054
10-2460	WST21-10-14180	ISO_PU	HASL-300:ISOPU	Pu-239/240	Plutonium-	U	R11	Null	CS	Validated	pCi/g	0.0148	33	0.054
10-2460	WST21-10-14181	ISO_PU	HASL-300:ISOPU	Pu-239/240	Plutonium-	NQ	NQ	Null	RE	Validated	pCi/g	**0.4195**	33	0.054
10-2460	WST21-10-14181	ISO_PU	HASL-300:ISOPU	Pu-239/240	Plutonium-	NQ	NQ	Null	CS	Validated	pCi/g	**0.0629**	33	0.054
10-2460	WST21-10-14182	ISO_PU	HASL-300:ISOPU	Pu-239/240	Plutonium-	NQ	NQ	Null	CS	Validated	pCi/g	**0.1544**	33	0.054
10-2460	WST21-10-14182	ISO_PU	HASL-300:ISOPU	Pu-239/240	Plutonium-	U	R5	U	RE	Validated	pCi/g	0	33	0.054
10-2458	WST21-10-14178	METALS	SW-846:6010B	K	Potassium	NQ	NQ	*E	CS	Validated	mg/kg	580	na	3460
10-2458	WST21-10-14178	GAMMA_SPEC	EPA:901.1	K-40	Potassium-40	NQ	NQ	Null	CS	Validated	pCi/g	15.6	na	36.8
10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	K-40	Potassium-40	NQ	NQ	Null	CS	Validated	pCi/g	17.025	na	36.8
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	K-40	Potassium-40	NQ	NQ	Null	CS	Validated	pCi/g	17.888	na	36.8
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	K-40	Potassium-40	NQ	NQ	Null	CS	Validated	pCi/g	17.188	na	36.8
10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	K-40	Potassium-40	NQ	NQ	Null	CS	Validated	pCi/g	16.224	na	36.8
10-2458	WST21-10-14178	GAMMA_SPEC	EPA:901.1	Ra-223	Radium-223	U	R5	U	CS	Validated	pCi/g	0.48	5	na
10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	Ra-223	Radium-223	NQ	NQ	Null	CS	Validated	pCi/g	0.3562	5	na
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	Ra-223	Radium-223	U	R5	U	CS	Validated	pCi/g	0.1979	5	na
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	Ra-223	Radium-223	U	R5	U	CS	Validated	pCi/g	-0.0025	5	na
10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	Ra-223	Radium-223	U	R5	U	CS	Validated	pCi/g	0.12	na	na
10-2458	WST21-10-14178	GAMMA_SPEC	EPA:901.1	Ra-224	Radium-224	U	R5	U	CS	Validated	pCi/g	2.3	na	na
10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	Ra-224	Radium-224	U	R5	U	CS	Validated	pCi/g	-3.1896	na	na
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	Ra-224	Radium-224	U	R5	U	CS	Validated	pCi/g	-2.9061	na	na
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	Ra-224	Radium-224	U	R5	U	CS	Validated	pCi/g	-2.3518	na	na
10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	Ra-224	Radium-224	U	R5	U	CS	Validated	pCi/g	-1.9686	na	na
10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	Ra-226	Radium-226	NQ	NQ	Null	CS	Validated	pCi/g	**2.6033**	5	2.59
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	Ra-226	Radium-226	NQ	NQ	Null	CS	Validated	pCi/g	1.9662	5	2.59
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	Ra-226	Radium-226	NQ	NQ	Null	CS	Validated	pCi/g	**3.0054**	5	2.59
10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	Ra-226	Radium-226	NQ	NQ	Null	CS	Validated	pCi/g	1.8241	5	2.59
10-2458	WST21-10-14178	GAMMA_SPEC	EPA:901.1	Ra-228	Radium-228	U	R5	U	CS	Validated	pCi/g	0.38	5	2.33
10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	Ra-228	Radium-228	NQ	NQ	Null	CS	Validated	pCi/g	1.0656	5	2.33
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	Ra-228	Radium-228	NQ	NQ	Null	CS	Validated	pCi/g	0.8417	5	2.33
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	Ra-228	Radium-228	NQ	NQ	Null	CS	Validated	pCi/g	0.738	5	2.33
10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	Ra-228	Radium-228	NQ	NQ	Null	CS	Validated	pCi/g	0.5935	5	2.33
10-2458	WST21-10-14178	GAMMA_SPEC	EPA:901.1	Ru-106	Ruthenium-106	U	R5	U	CS	Validated	pCi/g	0.17	20	na
10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	Ru-106	Ruthenium-106	U	R5	U	CS	Validated	pCi/g	-0.1034	20	na
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	Ru-106	Ruthenium-106	U	R5	U	CS	Validated	pCi/g	0.1038	20	na
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	Ru-106	Ruthenium-106	U	R5	U	CS	Validated	pCi/g	-0.0941	20	na

Five Samples of base-course from Espanola Transit Mix (3-12-2010)

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10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	Ru-106	Ruthenium-106	U	R5	U	CS	Validated	pCi/g	-0.0146	20	na
10-2458	WST21-10-14178	METALS	SW-846:6020	Se	Selenium	U	U_LAB	U	CS	Validated	mg/kg	0.1	391	1.52
10-2458	WST21-10-14178	METALS	SW-846:6010B	Se	Selenium	U	U_LAB	U	CS	Validated	mg/kg	0.51	391	1.52
10-2458	WST21-10-14178	METALS	SW-846:6010B	Ag	Silver	U	U_LAB	U	CS	Validated	mg/kg	1	391	1
10-2458	WST21-10-14178	METALS	SW-846:6010B	Na	Sodium	NQ	NQ	E	CS	Validated	mg/kg	190	na	915
10-2458	WST21-10-14178	GAMMA_SPEC	EPA:901.1	Na-22	Sodium-22	U	R5	U	CS	Validated	pCi/g	0.035	1.6	na
10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	Na-22	Sodium-22	U	R5	U	CS	Validated	pCi/g	0.0051	1.6	na
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	Na-22	Sodium-22	U	R5	U	CS	Validated	pCi/g	-0.0096	1.6	na
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	Na-22	Sodium-22	U	R5	U	CS	Validated	pCi/g	-0.0086	1.6	na
10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	Na-22	Sodium-22	U	R5	U	CS	Validated	pCi/g	-0.0032	1.6	na
10-2458	WST21-10-14178	METALS	SW-846:6010B	Sr	Strontium	J-	I6a	N*	CS	Validated	mg/kg	40	46929	na
10-2458	WST21-10-14178	GAMMA_SPEC	EPA:901.1	Sr-85	Strontium-85	U	R5	U	CS	Validated	pCi/g	-0.24	na	na
10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	Sr-85	Strontium-85	U	R5	U	CS	Validated	pCi/g	-0.0326	na	na
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	Sr-85	Strontium-85	U	R5	U	CS	Validated	pCi/g	-0.0315	na	na
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	Sr-85	Strontium-85	U	R5	U	CS	Validated	pCi/g	-0.0248	na	na
10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	Sr-85	Strontium-85	U	R5	U	CS	Validated	pCi/g	-0.0239	na	na
10-2458	WST21-10-14178	SR_90	EPA:905.0	Sr-90	Strontium-90	NQ	NQ	Null	CS	Validated	pCi/g	0.007	5.7	1.31
10-2460	WST21-10-14179	SR_90	EPA:905.0	Sr-90	Strontium-90	U	R5	U	CS	Validated	pCi/g	0.019	5.7	1.31
10-2460	WST21-10-14180	SR_90	EPA:905.0	Sr-90	Strontium-90	U	R5	U	CS	Validated	pCi/g	-0.002	5.7	1.31
10-2460	WST21-10-14181	SR_90	EPA:905.0	Sr-90	Strontium-90	U	R5	U	CS	Validated	pCi/g	-0.097	5.7	1.31
10-2460	WST21-10-14182	SR_90	EPA:905.0	Sr-90	Strontium-90	U	R5	U	CS	Validated	pCi/g	0.111	5.7	1.31
10-2458	WST21-10-14178	METALS	SW-846:6010B	Tl	Thallium	U	U_LAB	U	CS	Validated	mg/kg	**1**	5.16	0.73
10-2458	WST21-10-14178	GAMMA_SPEC	EPA:901.1	Tl-208	Thallium-208	U	R5	U	CS	Validated	pCi/g	0.188	na	na
10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	Tl-208	Thallium-208	NQ	NQ	Null	CS	Validated	pCi/g	0.2873	na	na
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	Tl-208	Thallium-208	NQ	NQ	Null	CS	Validated	pCi/g	0.28	na	na
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	Tl-208	Thallium-208	NQ	NQ	Null	CS	Validated	pCi/g	0.2767	na	na
10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	Tl-208	Thallium-208	NQ	NQ	Null	CS	Validated	pCi/g	0.2478	na	na
10-2458	WST21-10-14178	GAMMA_SPEC	EPA:901.1	Th-227	Thorium-227	U	R5	U	CS	Validated	pCi/g	-0.03	na	na
10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	Th-227	Thorium-227	U	R5	U	CS	Validated	pCi/g	0.1435	na	na
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	Th-227	Thorium-227	U	R5	U	CS	Validated	pCi/g	-0.01	na	na
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	Th-227	Thorium-227	U	R5	U	CS	Validated	pCi/g	-0.0092	na	na
10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	Th-227	Thorium-227	U	R5	U	CS	Validated	pCi/g	-0.0253	na	na
10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	Th-228	Thorium-228	NQ	NQ	Null	CS	Validated	pCi/g	0.9547	2.3	2.28
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	Th-228	Thorium-228	NQ	NQ	Null	CS	Validated	pCi/g	0.8003	2.3	2.28
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	Th-228	Thorium-228	NQ	NQ	Null	CS	Validated	pCi/g	0.6144	2.3	2.28
10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	Th-228	Thorium-228	NQ	NQ	Null	CS	Validated	pCi/g	0.705	2.3	2.28
10-2458	WST21-10-14178	GAMMA_SPEC	EPA:901.1	Th-231	Thorium-231	U	R5	U	CS	Validated	pCi/g	1.12	na	na
10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	Th-231	Thorium-231	U	R5	U	CS	Validated	pCi/g	0.4675	na	na
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	Th-231	Thorium-231	U	R5	U	CS	Validated	pCi/g	0.2663	na	na
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	Th-231	Thorium-231	U	R5	U	CS	Validated	pCi/g	0.1891	na	na
10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	Th-231	Thorium-231	U	R5	U	CS	Validated	pCi/g	0.2251	na	na
10-2458	WST21-10-14178	GAMMA_SPEC	EPA:901.1	Th-234	Thorium-234	U	R5	U	CS	Validated	pCi/g	-0.4	na	na
10-2458	WST21-10-14178	METALS	SW-846:6010B	Sn	Tin	J	I1	B	CS	Validated	mg/kg	0.5	na	na
10-2458	WST21-10-14178	GAMMA_SPEC	EPA:901.1	Sn-113	Tin-113	U	R5	U	CS	Validated	pCi/g	0.109	na	na

Five Samples of base-course from Espanola Transit Mix (3-12-2010)

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Lab Request Number	Sample Name	Analytical Suite Code	Analytical Method Code	Analyte Code	Analyte Description	Validation Qualifier Code	Validation Reason Code	Lab Qualifier Code	Lab QC Type Code	Validation Status Code	Result UOM Code	Lab Result	Residential SSL or SAL	Background
10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	Sn-113	Tin-113	U	R5	U	CS	Validated	pCi/g	-0.0048	na	na
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	Sn-113	Tin-113	U	R5	U	CS	Validated	pCi/g	0.0153	na	na
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	Sn-113	Tin-113	U	R5	U	CS	Validated	pCi/g	0.0039	na	na
10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	Sn-113	Tin-113	U	R5	U	CS	Validated	pCi/g	-0.0097	na	na
10-2458	WST21-10-14178	H3	EPA:906.0	H-3	Tritium	NQ	NQ	Null	CS	Validated	pCi/mL	-0.02	750	0.766
10-2460	WST21-10-14179	H3	EPA:906.0	H-3	Tritium	U	R4	Null	CS	Validated	pCi/g	6.7653	750	0.766
10-2460	WST21-10-14180	H3	EPA:906.0	H-3	Tritium	U	R4	Null	CS	Validated	pCi/g	6.6511	750	0.766
10-2460	WST21-10-14181	H3	EPA:906.0	H-3	Tritium	U	R4	Null	CS	Validated	pCi/g	5.5868	750	0.766
10-2460	WST21-10-14182	H3	EPA:906.0	H-3	Tritium	U	R4	Null	CS	Validated	pCi/g	7.3611	750	0.766
10-2458	WST21-10-14178	METALS	SW-846:6020	U	Uranium	NQ	NQ	Null	CS	Validated	mg/kg	0.5	235	1.82
10-2458	WST21-10-14178	ISO_U	HASL-300:ISOU	U-234	Uranium-234	NQ	NQ	Null	CS	Validated	pCi/g	0.448	170	2.59
10-2460	WST21-10-14179	ISO_U	HASL-300:ISOU	U-234	Uranium-234	NQ	NQ	Null	CS	Validated	pCi/g	0.919	170	2.59
10-2460	WST21-10-14179	ISO_U	HASL-300:ISOU	U-234	Uranium-234	NQ	NQ	Null	RE	Validated	pCi/g	0.2621	170	2.59
10-2460	WST21-10-14180	ISO_U	HASL-300:ISOU	U-234	Uranium-234	NQ	NQ	Null	CS	Validated	pCi/g	0.942	170	2.59
10-2460	WST21-10-14180	ISO_U	HASL-300:ISOU	U-234	Uranium-234	NQ	NQ	Null	RE	Validated	pCi/g	0.232	170	2.59
10-2460	WST21-10-14181	ISO_U	HASL-300:ISOU	U-234	Uranium-234	NQ	NQ	Null	CS	Validated	pCi/g	0.9505	170	2.59
10-2460	WST21-10-14181	ISO_U	HASL-300:ISOU	U-234	Uranium-234	NQ	NQ	Null	RE	Validated	pCi/g	0.1968	170	2.59
10-2460	WST21-10-14182	ISO_U	HASL-300:ISOU	U-234	Uranium-234	NQ	NQ	Null	CS	Validated	pCi/g	0.5226	170	2.59
10-2460	WST21-10-14182	ISO_U	HASL-300:ISOU	U-234	Uranium-234	NQ	NQ	Null	RE	Validated	pCi/g	0.292	170	2.59
10-2458	WST21-10-14178	GAMMA_SPEC	EPA:901.1	U-235	Uranium-235	U	R5	U	CS	Validated	pCi/g	-0.55	17	0.2
10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	U-235	Uranium-235	U	R5	U	CS	Validated	pCi/g	0.0653	17	0.2
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	U-235	Uranium-235	U	R5	U	CS	Validated	pCi/g	0.0613	17	0.2
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	U-235	Uranium-235	NQ	NQ	Null	CS	Validated	pCi/g	0.088	17	0.2
10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	U-235	Uranium-235	NQ	NQ	Null	CS	Validated	pCi/g	0.0943	17	0.2
10-2458	WST21-10-14178	ISO_U	HASL-300:ISOU	U-235/236	Uranium-235/236	U	R11	Null	CS	Validated	pCi/g	0.023	17	0.2
10-2460	WST21-10-14179	ISO_U	HASL-300:ISOU	U-235/236	Uranium-235/236	U	R5	U	CS	Validated	pCi/g	0.051	17	0.2
10-2460	WST21-10-14179	ISO_U	HASL-300:ISOU	U-235/236	Uranium-235/236	U	R5	U	RE	Validated	pCi/g	0.0066	17	0.2
10-2460	WST21-10-14180	ISO_U	HASL-300:ISOU	U-235/236	Uranium-235/236	U	R5	U	CS	Validated	pCi/g	0.0152	17	0.2
10-2460	WST21-10-14180	ISO_U	HASL-300:ISOU	U-235/236	Uranium-235/236	U	R11	Null	RE	Validated	pCi/g	0.01	17	0.2
10-2460	WST21-10-14181	ISO_U	HASL-300:ISOU	U-235/236	Uranium-235/236	U	R11	Null	CS	Validated	pCi/g	0.0244	17	0.2
10-2460	WST21-10-14181	ISO_U	HASL-300:ISOU	U-235/236	Uranium-235/236	U	R5	U	RE	Validated	pCi/g	0.0105	17	0.2
10-2460	WST21-10-14182	ISO_U	HASL-300:ISOU	U-235/236	Uranium-235/236	U	R11	Null	CS	Validated	pCi/g	0.0494	17	0.2
10-2460	WST21-10-14182	ISO_U	HASL-300:ISOU	U-235/236	Uranium-235/236	U	R11	Null	RE	Validated	pCi/g	0.0172	17	0.2
10-2458	WST21-10-14178	ISO_U	HASL-300:ISOU	U-238	Uranium-238	NQ	NQ	Null	CS	Validated	pCi/g	0.506	87	2.29
10-2460	WST21-10-14179	ISO_U	HASL-300:ISOU	U-238	Uranium-238	NQ	NQ	Null	CS	Validated	pCi/g	0.7626	87	2.29
10-2460	WST21-10-14179	ISO_U	HASL-300:ISOU	U-238	Uranium-238	NQ	NQ	Null	RE	Validated	pCi/g	0.145	87	2.29
10-2460	WST21-10-14180	ISO_U	HASL-300:ISOU	U-238	Uranium-238	NQ	NQ	Null	CS	Validated	pCi/g	0.6256	87	2.29
10-2460	WST21-10-14180	ISO_U	HASL-300:ISOU	U-238	Uranium-238	NQ	NQ	Null	RE	Validated	pCi/g	0.1486	87	2.29
10-2460	WST21-10-14181	ISO_U	HASL-300:ISOU	U-238	Uranium-238	NQ	NQ	Null	CS	Validated	pCi/g	0.5411	87	2.29
10-2460	WST21-10-14181	ISO_U	HASL-300:ISOU	U-238	Uranium-238	NQ	NQ	Null	RE	Validated	pCi/g	0.2484	87	2.29
10-2460	WST21-10-14182	ISO_U	HASL-300:ISOU	U-238	Uranium-238	NQ	NQ	Null	CS	Validated	pCi/g	0.6222	87	2.29
10-2460	WST21-10-14182	ISO_U	HASL-300:ISOU	U-238	Uranium-238	NQ	NQ	Null	RE	Validated	pCi/g	0.245	87	2.29
10-2458	WST21-10-14178	METALS	SW-846:6010B	V	Vanadium	NQ	NQ	Null	CS	Validated	mg/kg	15	391	39.6
10-2458	WST21-10-14178	GAMMA_SPEC	EPA:901.1	Y-88	Yttrium-88	U	R5	U	CS	Validated	pCi/g	0	na	na

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10-2460	WST21-10-14179	GAMMA_SPEC	EPA:901.1	Y-88	Yttrium-88	U	R5	U	CS	Validated	pCi/g	0.0053	na	na
10-2460	WST21-10-14180	GAMMA_SPEC	EPA:901.1	Y-88	Yttrium-88	U	R5	U	CS	Validated	pCi/g	0	na	na
10-2460	WST21-10-14181	GAMMA_SPEC	EPA:901.1	Y-88	Yttrium-88	U	R5	U	CS	Validated	pCi/g	0	na	na
10-2460	WST21-10-14182	GAMMA_SPEC	EPA:901.1	Y-88	Yttrium-88	U	R5	U	CS	Validated	pCi/g	0	na	na
10-2458	WST21-10-14178	METALS	SW-846:6010B	Zn	Zinc	J	I4a	Null	CS	Validated	mg/kg	22	23464	48.8